<110> Rosen et al.

<120> 143 Human Secreted Proteins

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<141> 2001-11-08

<150> PCT/US00/12788
<151> 2000-05-11

<150> US 60/134,068
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Application/Control Number: 09/964,744

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<211> 1605
<212> DNA
<213> Homo sapiens

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<210> 22
<211> 967
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (656)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (754)
<223> n equals a,t,g, or c

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<210> 23
<211> 1236
<212> DNA
<213> Homo sapiens

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<210> 24
<211> 711
<212> DNA
<213> Homo sapiens

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<210> 25
<211> 898
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (502)
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<210> 26
<211> 718
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (703)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (704)
<223> n equals a,t,g, or c

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<221> SITE
<222> (706)
<223> n equals a,t,g, or c

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<211> 1059
<212> DNA
<213> Homo sapiens

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<210> 28
<211> 297
<212> DNA
<213> Homo sapiens

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<210> 29
<211> 3285
<212> DNA
<213> Homo sapiens

<400> 29
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<210> 30
<211> 1528
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (554)
<223> n equals a,t,g, or c

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> SITE
<222> (44)
<223> n equals a,t,g, or c

<220>
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<222> (70)
<223> n equals a,t,g, or c

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aactag 726

<210> 37
<211> 1002
<212> DNA
<213> Homo sapiens

<400> 37
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<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 42
<211> 838
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (81)
<223> n equals a,t,g, or c

<400> 42
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tcagacagag tgagtgctca ggaaaataaa acgatgaagc caagaaaaag atgaaactaa 540
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tgaagttaaa gcatcttctg cttagaataa ggaaagcaag tgaatgtcac gtttgtcaca 780
ctaagacagt taccatgaaa acaaccacag gcgaaaaaaa aaaaaaaaaa aaactcga 838

<210> 43
<211> 320
<212> DNA
<213> Homo sapiens

<400> 43
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carrgccatg ctgtcgaggg cttcctgcaa ttgcagrcgt gcttcgccgr cttgttcgtg 180
ttcgarggcg cgttgctcgc ccatctcggc cacttcttcg tcgagccggg tgcggcgcag 240
ggtcagttgc tcgaccttgg ccttgytcgc cgagagctgg gctttcaatt cgccctgctg 300
gcgcgcttcg tcctgcaaca 320

<210> 44
<211> 785
<212> DNA
<213> Homo sapiens

<400> 44
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ttcagacagg gactgatatc tctgagaacc tgtgggaaga aggacaacca gttgatctct 180
tgaggactga gagtcagccc acatgatatg agaggctgtt gcatcccaat gccattgtct 240
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gtgcagtgtc catgggtggt gttttctgtg tggctgtttg cagtcagcgc ttttgaagct 360
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ctcga 785

<210> 45
<211> 1139
<212> DNA
<213> Homo sapiens

<400> 45
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ttcttttaat cacaaaattg ttttaacttt taaaatgaaa aatttctgac aacacattat 180
tcctaaattt ataagaaaat gtaaatatat aaaatcacag aaagggatgc caggagagcc 240
aagtggcact ggttttggaa atagtaaaga aggaaggtta gacaggggaa taaaaaagaa 300
gcaaaaagat tcaagtcaat ctacaccttt aaaataagaa aaaaataaaa taagcctaga 360
taaacttgag agttctgtta taatagccag gatacagaat taacccaagt ttccatcagt 420
ggacaaatgg attaaaaaat ggacgaatag ataaagaaaa tgtatatgca caatgttact 480
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tagtcagatc ttcactgggg cttaataacc agttaaaaac actgatttga aactgttctc 660
ttctataggc agcaccccca cccagttaca ttgacattaa gtaaatgcat agattaaaaa 720
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tgtctctcac ctgtaatccc cagcactttg gggaggccga agcaggcaga tcacctgaag 900
gtcaggagtt tgagactagc ctggccaaca tggcgaaact catctctact aaaaatacaa 960

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aaattagcca ggcgtggtgg cgagtgcctt taatcccagc tgcttgggaa gctaaggcag 1020
gagaatcgct tgaacccagt aagtggatgt tgcagtgaac tgagatcgca ccactacact 1080
tcagccaggg ccacaagagc tccatctcaa gttaaaaaaa aaaaaaaaaa aaaaaaaaa 1139

<210> 46
<211> 701
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (547)
<223> n equals a,t,g, or c

<400> 46
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ggcttgaacc caagaggcgg agcttgcagt gagccgagat cgcgccactg cactccagcg 660
tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa g 701

<210> 47
<211> 528
<212> DNA
<213> Homo sapiens

<400> 47
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ccggaccctg gaatgtcttt ggatattgct aaaatctatt tctgcagctg aggttttatc 180
cactggacac atttgtgtgt gagaactagg tcttgttgag gttagcgtaa cctggtatat 240
gcaactacca tcctctgggc caactgtgga agctgctgca cttgtgaaga atcctgagct 300
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aaactaggtt ctttatacag ataaggtcag tagagttcca gaataaaaga tatgactttt 420
ctgagttatt tatgtactta aaatatgttg tcacagtatt tgttcccaaa tatattaaag 480
gtaaccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 528

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<210> 48
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (751)
<223> n equals a,t,g, or c

<400> 48
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tttaaccctt cactaaaggg aacaaaagct ggagttcaac cgcggttggc gcccgctcta 180
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tctgtgccag gaggcacctg agttctctgc tgttatcctg ccccaagggc ctgggccgag 360
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aggaggaagc cagctgcaat gtggagacac gtcctcctcc ccaacccacc tcatgccacc 480
gccaaccccc tgccccagga gcgggcctga gccacgtccc ctaggagcag ctggagatgg 540
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cagaagggtc acctaaccca ggagtccaca gactgatgtg acctcaggtt cccacatcag 660
tggccacagg gcagggccca cctggtagaa gtgttctgga tatggccagg gtgggtgtgt 720
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<210> 49
<211> 668
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (659)
<223> n equals a,t,g, or c

<400> 49
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gtttcatgag tgagaaataa ccttctgttg ctttaaatct tgggttgtgc aatacatcag 180
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tgagtgtgtt ttctggatgc aggttggtgt atattgctat cattttctgc cttctcatgt 300
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agtggggtgg gaagagggag aacattagaa aaagtagcta atgcatgctg ggcttaacac 540
ctaatgggtt gataggtgca gcaaaccacc acggcacaca tttacctagg taacaaacct 600
tcacatcctg cacatgtacc ccagaactta aaaaaaaaaa aaaaaaaaaa aaaaaaaanc 660
gcggccgc 668

<210> 50
<211> 3337
<212> DNA
<213> Homo sapiens

<400> 50
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ctgacttagg atttgagcat ctttctgtta tgctgttgcc ccactcctat tgcaatactc 120
ctcttcttaa gaaagttttt ctagactaat gtctagatta aacttctttt ctttgacaat 180
aatgatgcca tgacttggac aaaatgccca ttgcctctgg gtcctgcttt cttcacccag 240
tgctgcctta ttggactcct tgtgcctctc cttggctggg gaaatcagaa tacacagtgg 300
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gtaaaacaca tggtttaact agtcctccag gaacaacamt gagcaatcct gacctgggac 420
tactttactc ggccatctcc tacttgagat gctccttgtc tctctgttca aggacacctt 480
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cctccaaatg caaggataat cttacacgag tccaggagga aggctcattc cacactaagt 660
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ttttaaaaga agtgaattat ctcttatgtt acttaattta atccacatta aagatttatg 3300
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<210> 51
<211> 847
<212> DNA
<213> Homo sapiens

<400> 51
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atgtgtagag ggcatctgca cttaattgtg tttttccctg tgctgcttct gtcccatcca 180
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tgtgttgttt acattcctgc tgtcacctgt gattagaagc agttacccag cctgggtgac 660
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<210> 52
<211> 832
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (829)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (831)
<223> n equals a,t,g, or c

<400> 52
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tctctaatat gggcattaag agaggggtac agctagaggg gaggtgaaaa cctgcctcca 240
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cattttaaga agtttgacta gtagacattt cgtttaagtc ttttggaggg tcttggttga 780
caacccacaa ttttattgtg gctccccagg ctgggagaac gtggaannnc na 832

<210> 53
<211> 819
<212> DNA
<213> Homo sapiens

<220>
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<222> (762)
<223> n equals a,t,g, or c

<400> 53
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tgtctccggc caggcacgcg tctggggtgg agactcccgg tgcccgggcc ctccagacct 660
ctttccccac cccagggagc aggcgggtac ttctattccg tttggcttca gaagggaaaa 720
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<210> 54
<211> 608
<212> DNA
<213> Homo sapiens

<400> 54
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gctactttta gtgtttttgt ggtatgtggt gtgggagtgt ttatggaatt accagtatct 180
taaattttca aaggaacctt ggaagtctat cactctaaat gaaagtctgt cactctacat 240
gaattatgtg ctcaaatttg accaactcag tttaagacac aaaacagtaa tttgaagaag 300
gaaaaatgaa gagagtttct agtttaatgg gttaaatttt tgttgttgca atagtaagtt 360
tagtcttctt ataatatttc taaatgaaaa atcataggta tttgttacca tgtgtgaaga 420
ttastttgtt aaaagcaaaa gtggtcgtgt gatatgctaa atgttaatta ctgattttat 480
atgtttaaat cacgccaaac aaattatgtc tgtgccatcc agggtctgtt gttaatcttt 540
ttctgagtac ttggattggg ataaagggct tgtactatgc acttttttatt aatgaataaa 600
tagaaaac 608

<210> 55
<211> 612
<212> DNA
<213> Homo sapiens

<400> 55
cccgggtcga cccacgcgtc cgggaaggca ggcatggggt gtggccctcg gagaagttag 60
gagtccccca gctcaagata cagtggcaaa gacctagtgg tcccctaccc ccacttctct 120
cagttcctgg catgaggaga gaagaccctg ctctggtgga gctgacaacc tttgaggctg 180
ggaggagagc agcctctggg catcgttccc agtgtccctc acactaaaac ggcgtagatg 240
gcaacccccc acccccaccc cgctgctcaa ctcttgtgtt tgttgttctg tttgccccat 300
ttatctgttg ctgtttttgt gttgtcttcc cctgctccgc attttgtaaa atggcccctg 360
ggggagtgtt tttgctggat ctgctccctc tcgctctctc actccactac tttttggaac 420
aaagtgatgg cagaatgcgg tggtggtggg ggtcttttgt actgttggat taataaaatg 480
attttaaaat cccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600

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aaggggggggc cg 612

<210> 56
<211> 957
<212> DNA
<213> Homo sapiens

<400> 56
ggtcgaccca cgcgtccgcc cacgcgtccg gctggagata aaatttatgt tgttaaaaga 60
gaaaatgcaa tattctttag gatgtacagc tttaaagctg cattaggagt aaaacacagg 120
aggtacatgc agcatttagt gatcatttct gctcttttct gtagtcttct aggtactcta 180
atcacaaaat gttaatgcgc atctttaggg gtaaaataat gtgctctaaa gaatatggta 240
gtcactgata atttgtaatt atttactaga ttttttgtta ctaaataatt caatggtatg 300
actatagtat cagtaatcag cctgctgaag aatgaataat gcaatcaatt tacattcttt 360
tgttgccatt gatagaccag taacagctta cctttcctat attctgtagg catctaagaa 420
gaaaatatac caaaacttta agatatcaaa atatattttt cagaggtaaa acaatgaccc 480
tcgtaaatac atagtaagtg cgtgtcataa atttatttgc ctgatgaatg agggaatcaa 540
cataatggtg atgctgattc ccagaaaatt ccacagataa attatatata ggcactgata 600
gaatgctaga ataagattgt aagatcagta aattgggctg ggtgcagtgg cctgtacccc 660
tagcagtttg agaggctgag acaagaggat cacttgaacc caggagttga agaccagcct 720
gggcaacatg tcaaaactcc atctctacaa aaaatacaaa aaatagctgg gcatgatggt 780
gcatgcctgt agtcccagct acttgggagg ctgaggtgga aggatcgttt gagcccagaa 840
tgttgagact gcagtgggct gtgatcatgc cactgcactg tagcctcagc ctgggtgaca 900
gagtgagctc ttgtctccag aaaagaaaaa agaaaaaaaa aaaaaaaaag ggcggcc 957

<210> 57
<211> 622
<212> DNA
<213> Homo sapiens

<400> 57
aggcgatctc ggctcactgc aacctctgtc tcctgggttt argsgrttct yytkyctcag 60
cctcccaagt aggtgggact acaggtgtgt gccaccacgc cctgctaatt ctttttgtat 120
ttttagtaga gacggggatt caccatattg gtcagtctgg tctcaaactc ctgacctctg 180
gtgatccacc tacctcagcc tcccaaagtg ctgggattac aggcatgagc cacagtgccc 240
tgccagtttt gtttattttg ttactgcttt ttcctctccc tctggaacca ctarattgtg 300
agtcatgcac arcgtgtgtg tctctctcat gcccgctata tagtcacagc agctgttctt 360
tgattcattt gttcattcaa catatatact ttgagaggct ggcacaatgc caggcactaa 420
gtttgatagt ggagacacac aaattaaaaa gagattcata tcctgacctc aagttgatga 480
caatttagaa gggctatgcg taggaaaaca gaaaactata agcaatagac tcagtgtcac 540
ggtccagata tatccaagac acttggagca cagagggagt cctgctccaa gggagtctta 600
tgtcttttat tagccataga ta 622

<210> 58
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (372)
<223> n equals a,t,g, or c

<400> 58
gaattcggca cgaggagaga gagagagaga gagagagaga gacgctcc tccatcgggt 60
ttggggaggg agcactctgg gactgtgaga caaggaagca gggccagcag tgagactatg 120
agccaagcaa agagaagtct cagtggagca tgaggaggga gcaktccaka tgccaacaag 180
gaaatgcgtt tatggctaca agagtgcctc tgctttctcc tcctctcctc ccaccaagga 240
ttcttccacc ttaatcttgt tttcatatgc ctcttcttac ttcacccatg tttgttgtta 300
tgcaaataaa ggtttttcttc ttccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaanana an 372

<210> 59
<211> 407
<212> DNA
<213> Homo sapiens

<400> 59
gaattcggca cgagctcgtg ccgaattcgg cacgaggtta acccagggcc tagacttcta 60
gtgcctctga ggcagaacca aaggagcctg cactgggggа aatccctttt cctgcctgcc 120
tgtctgcctg tgacctgtgt acgtattaca ggctttagga ccagctgatt gttatgcttg 180
caggatggtt ttgaaacaga aacaatactt gtttactgta ggaatcctat ttatattatt 240
tttcagtcct gtgaatgctg tgaaaagatt tattcctttg aggccaggaa gctcccaggc 300
atatatgctt ctaggttagg attgtcctga ctcactaaag atgccaggat attggggctg 360
aggggagttt gaggtgttaa aaaaaaaaaa aaaaaaaaaa actcgag 407

<210> 60
<211> 551
<212> DNA
<213> Homo sapiens

<400> 60
ggcacagctg gcgggacccc ttctttaaaa gactctgaga gtaaaagggg aaatacagtt 60
ttgaaagatc tgaaattgat cagtgataaa attggatcac ttggattagg aactggagaa 120
gatgatgact atgttgatga ttttaatagt accagccatc gctcagagaa aagtgagata 180
agtattggtg aagagataga agaagacctt tctgtggaaa tagatgacat caataccagt 240
gataagcttg atgacctcac acaagatctg actgtatccc agctcagtga tgttgcggat 300
tatctggaag atgttgcata gacacgaaga aggaagtatt ctaattaaca aggacagagg 360
actgaccggt tccatttttt ttttttccag acaatcactc agctggaatg tctgctctct 420
attggtgcct tgcatttcaa aaacactgca gatatttttt aaaagtaatt ttcattttac 480
taaacaaaat acttcctatt tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaagggcggc c 551

<210> 61
<211> 995
<212> DNA
<213> Homo sapiens

<400> 61
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agctaatatt ttttaaccaa taggatttag ggtgtttttgt tgtgtggcaa tggatatctg 120
aaacagaaat caatatgtta cacccccttcc cacaaatata atgacactcc atatcctcct 180
taacttgctg tatttttctc ttgttgcatt taccacctgg cttactgtgt atctacctat 240
ttgttattgt ctccctatcc ccgctggaac acaaactctg ggaaggcaga gactttgtct 300
tattcattac tgtatctgag cgcctggaat agtgtctaag ataggccctc aatacatatt 360
tgttaaatga aggcatatat ttaatttaac ttgataagtt tgctttttgt agacatagca 420
agtccataaa aaggaaagac aaattaattt aaattgccca tgccgacagc cttccctctt 480
atggacacaa tatctggaga tgtctaaaat tactggcggg ttcttccgcc tttccccatt 540
ggaggcatcc cttcccaggg ggaaagggag taagattctg ctcctttaat acatactgac 600
ctcaggagga aagggactag aaatgtatgg actgaatgtc tgtgtgcctt gcaaattcat 660
atggtgaaat cctaaacccc aatatgatgg tattaagaag tgagaccttt ggaggtgatt 720
aggtcatgag ggtgaagcct tcaggaatgg gattagtgcc cttataaaag agacttcaga 780
gaattctcta gccctcttta tgccatgtaa ggacacagtg agaagatgac catctatgaa 840
ccaggaagca ggccctcacc agacatcata tcttccagca ctttgatctt agacttccta 900
gcctccagaa ctgcaagaaa taaatgtttg ctgtttaagc catccagtct atgatattct 960
ggtatagtag cctgaactaa gacaaaaaaa aaaaa 995

<210> 62
<211> 268
<212> DNA
<213> Homo sapiens

<400> 62
ttttttttttt ttttttttttt tttaaatgag gggacctgtt cctgacaaac tacttgtttc 60
ctaaatgaat cccaaacttg cttgaattcc tacctcttga cctttgaaaa atgggaacac 120
gctgctcttg cattactggc agctgcaatg cagcatttac ctggactatc tctgcatctt 180
gttcttgtgt ttctggagtc actgggaagc tgtgcaaccc cacaccccag agcagcacca 240
gcagcaaaaa aaaaaaaaaa aaaaaaaa 268

<210> 63
<211> 870
<212> DNA
<213> Homo sapiens

<400> 63
ggcacgagac cacccgcgcc tggcctatgt agctaccttc tgatctaatt tggtatgatg 60
gggtagagaa ggttagttta gagagaatgt ttcctgtctt atcttctttt acccatctca 120
acacttttac ccctctaaaa ctgttcaaca tgttttcctc tttggaaatc tttcttcatg 180
tgcctttatt cattgtattt tctatgtctc tacttcttga acttaaacaa aacaaaaaac 240
cctgcaattc cacttctctt atttcccatg ggccctactt ataggtctct gccaaattat 300
gctggctgtt ctgtttttt cttcatattc ccttggtgaa cttgcccaca gtcttggctt 360
gaactgtact tttatataac tgattttcaa atcttgaact cttctaaatt tctacctgct 420
ggagccgggc acagtggctc acgcctgtaa tctcagcctc ccgaagtgct aggatcacag 480
gcaagatagg tattttaaat tgtcatttaa cagatggcaa atagccacag aaaagtaaag 540
ccacttttc aaactcacaa agtcaaatgt ttggcctagt tctgtcagac tgtaaagccc 600
atgcttttaa ttggtatcta atactgcttc ctatcagtag actatcagat tatcattcct 660
aaagatatta aaagaatggg tgctctaggg ttggagttca aaacattaat agaattatac 720
tattaaggtt gcatgtgatc actttgctgc tgtgagagac ctggatgctg tgtttgctgg 780
tcatttcaaa ggctgaagag aaacagacat gcctgtcctt accaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 870

<210> 64
<211> 556
<212> DNA
<213> Homo sapiens

<400> 64
ggacagagtt aygcaagctc taatacgact cactataggg aaagctggta cgcctgcagg 60
taccggtccg gaattcccgg gtcgacccac gcgtccggga agttatattg aagcagggga 120
ttttttcaaa gatgagaatt ctattacatt ttgcttggaa gcatgtgaaa acattccaga 180
ccaaaggaaa agttgaagtt ccaagtgggc atttagtgtg gtcttatcta tgactgttaa 240
ttttttaat atgcttttc tgtttcaaat aaaatgcttt ttctgtttca aataagctct 300
ttggttggct tgttttctgc aactctgttg ggtgtttttg gtaactagac aaccccaaac 360
tcctccaaat ggtttctagg actctttctt tccttaaatg gtttctggga ttttcttatt 420
tcccatttca tttcttttct ttgcttccct tcctattatc atcacactta tgtggagtcc 480
agtgctcagg tcctaggaga actaaagtca tccctgcagt gtagttttga tctaaaaaaa 540
aaaaaaaagg gcggcc 556

<210> 65
<211> 1302
<212> DNA
<213> Homo sapiens

<400> 65
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tcctcgaaag atgttgtcag acagctgtgt caagaaagct tttccagttc agcccttggc 120
ttgaaaaaac tcttggatgt tacatgttcc agcttgtctg tgacccagga ggaggcagag 180
gaactgctcc aggctctgca ccgcctcact aggctggtgg cattccgtga cctgtcctct 240

gccgaggcaa ttctggctct ctttccagaa aatttccacc aaaacctcaa aaacctgctg 300
acaaagatca tcctagaaca tgtgtctact tggagaaccg aagcccaggc aaatcagatc 360
tctctgccac gcctggtcga tctggactgg agagtggata tcaaaacctc ctcagacagc 420
atcagccgca tggccgtccc cacctgcctg ctccagatga agatccaaga agatcccagc 480
ctatgcggag acaaaccctc catctcagct gtcaccgtgg agctgagcaa agaaacactg 540
gacaccatgt tagatggcct gggccgcatc cgagaccaac tctctgccgt ggccagtaaa 600
tgatccagcc agctgccagg gccactgcca tgacccagct gctcatgagt gataaatgtc 660
tccccatatg caggctgccc ttgcagctgc agctgacaac aggcaggatg gtggggacag 720
caggggcta ctgccatcca gaagttacag ttggattggg aagaagcagc cagatccccc 780
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cagctgcctc tgcatagctg tttgagaaat tcaggcccaa atcatgcagc ctatccaata 960
agtaagttta tttccaacat tagctctaat tagttcattt ccaatcccag aacacatgga 1020
gggaatcgga caggtgatgc cagcagttcc tgctcctctg tcagggaagc caggcagagc 1080
ccacagagca tggtccatcc agagtgttcc ctgagccccc tccaccatac tggaacccct 1140
cttcagtgta ggaagtctga aatgggtgct aattcccttc ttcatgaaac cagggccctc 1200
ttccttcatc taatgcagcc actcctaggt gaagaagtgg gaataattgg aaataaacaa 1260
cagttctaaa acttcaaaaa aagtcgacgc ggccgcaagt tt 1302

<210> 66
<211> 685
<212> DNA
<213> Homo sapiens

<400> 66
gaattcggca cgagaaacaa atgagcagtt cttgggacag gtgctttgaa agactaatgt 60
ttaaaccact gtttctgaaa taaattaccc tttattcaaa ctcagactga ttttggcatc 120
tgtttaatac agagtcaacg taakkcatac tgccttttc ggttacttta aaactcagaa 180
gctatttctc attccccctt gaggagatga actcttgaac tatggctttt tatttttatt 240
cttccttttc tgtttttggg taagagacag ggtctagctt tttgtccctg agtggaatac 300
agtggcatca tcatagctca ctgcagcctc aaattcctgg gctcaagcga tcctcctgct 360
tcggcctccc aagtagcagg gactgcaggc atggtggctc acgcctgtaa tcccagcact 420
gtgggaggct gaggcgggca gattacgaga tcaggagatc gagagaatcc tggccaacgt 480
gatgaaaccc tgtctctact gaaatacaaa aaattagctg ggcatggtgg tgggtgcctg 540
tagtcccggc tacttgcgag gctgaggcag gagaatcgtt tgaacccagg aggcggaggt 600
tgcagtgagc caagttcacg ccactgcact ctagcctggc aacagagcaa acttcgtctc 660
aaaaaaaaaa aaaaaaaaaa ctcga 685

<210> 67
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (492)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (494)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (526)
<223> n equals a,t,g, or c

<400> 67

ggcacgagaa aaattctcaa gacccatgtg aaagtcagag aggggtgtgg tggcctggct 60
ggcctgaaga caggtgttct gatgattctg gcaggggccc ccatttgcct ggcactgaaa 120
ttatattagt atctttactg tatgagcacc gtgcccatca gggcaagctg tgactcctgt 180
caccaaacac tcaggaacca ttgcttttgg ggcctccagg atggtttcat ttgtaggcat 240
ctgccttctg ttggggtcct ttttttctcc ttctctacag gggacaatat ggcaccaccc 300
agcaaaacct gatgggagtg gacatggact accctcattt gcagtaatca tgggcaagca 360
ggtggtaccc acagtgtact ggagaatgcc ctaccctcgw agggggggtc ccggtaccya 420
attcgcccta tagtgatcgt attacaattc actggccgtc gtttacaaac gtcgtgactg 480
ggaaaacctg gngntaccca acttaatcgc cttgcagaaa tncccnt 527

<210> 68
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (766)
<223> n equals a,t,g, or c

<400> 68
tctaggaatt agtggatccc cccgggctgc aggaattcgg cacgagtatg gttcttgttc 60
ttaccactct aagcctgctc ccattgctaa tttccccctg taattatgaa atcaatttct 120
ccctatagca gttatattgg catttcaaag caggaaataa aaagtatgac gagaactatg 180
aaaggaaaag gtttttattg atctttttta gaaatgaaat ttgaaataca caagggacgc 240
atgaatttta tctttcatga acatttgatg rgtmagtgtg ggtgccccag taaagattct 300
ggcttcctgc aaaggataag gtcagaagta ctgtcctgat ttatccttga tgtgttcatc 360
acaggttctc ttgtctaatg gcccataact aagtgaggct ttgattatgg tatctaatga 420
tgaataatca aagtttattg caagatgttt taaccagact tctcctgatt tggaaatttt 480
ttwcctgtta ttacaatgca gtaatcccct tataatagaa tatcaagcca ggtgtagtgg 540
ctaacgcctg caatcccatt actttgggag gcccagctgg gaggattgct tgggcctggg 600
agtttgagaa cagcctgggc agtatagtga gaccttgtnt gtacaaaaaa acaaaaaatt 660
agccaagtgc agtggcatgc gtgggattgt cgggggtggg ggagcctgga atcacttgcg 720
cccgggaggt ggaggttgca gtgagccaga ttgtgccgct gcgctntagt cctgagtgac 780
agagtgagac ccttttttcaa aaaaaaaaaa aaa 813

<210> 69
<211> 999
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (948)

<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (969)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (983)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (986)
<223> n equals a,t,g, or c

<400> 69
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aatttcacac gggaaacagt tatgaccntn gattacgcca agctatttag gtgacactat 120
agaatactca agctatgcat caagcttggt accgagctcg gatccactag taacggccgc 180
cagtgtgctg gaattcggct tgycaccaac gasttcatcc tcagcctgac agccaagctg 240
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tacactctgt tctcgtggtt tctgtctcct cttctgtgtt tacagggttg ggcagctgct 360
acagcccttg cctcttccct gagtgcctca gagtgacaga gatgaagaag ccacttggct 420
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<210> 70
<211> 1089
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (92)
<223> n equals a,t,g, or c

<400> 70
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cggccagtga ttgtaatacg atcatatagg cngattggta ccggcccccc ttcttttttt 120
ttttttttnt ttttgtagta acatccagta ttttaatatt tatgcttgat aagtcattta 180

agttgaagac tctttatgta ttaatttcag caagtaacat aaccacacag aatagacaat 240
gaaagcataa ttagtcatta tacacaatta taatttgata aaaaatttca acatatacag 300
aagtataaag aatgtgtatc tatcatgcag cttctacaat tatcattcca actcctcgtt 360
tctttgatat tgccaacaat ttacaccctg ccccaattcc aaatttggaa acaagtccca 420
gatattaata taatttcctc ttcaacattt cagtatgcct gagagattct tgtttaaaaa 480
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tgcccaagct ggagtgcagt ggcacgatct cagctcactg cagcctcccc tgggttcaag 960
tgatcctcct gccttagcct cccaagtacc tgggattaca agcgtgcacc accaggcctg 1020
gctaattttt tgtatttttа gtagagatgg ggtttcgccg tgttggccag gctggtctgg 1080
aactcctgg 1089

<210> 71
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (469)
<223> n equals a,t,g, or c

<400> 71
ggttgacaac ttattagaaa gttacggctt gcaagttacc ggttccggat ttcccgggtc 60
gacccacgcg tccgcggacg gaccctgcct ccccagctta tcccaggcca gaggctgcat 120
gccactgtcc ccggcagcgc caacccctgc ttggctgtta tggtgctggt aataagcctc 180
gcagcccagg tccagagccc ccggcgagcc ggtcccataa ccggcccccт gcccctgccc 240
ctgctcctgc tcctcccctt cgggcccccт cctcctgcaa aacccgctcc cgaagcggcg 300
ctgccgtctg cagccacgcg ggggcgcgcg ggagctctgc gggcgctgga acctgcagac 360
ccggcctcgg tcagctggga ggggcccgcc ccggcacaaa gcacccatgg gaataaaggc 420
caagccgcga cagtcaaaaa aaarraaaaa aaaaaaaggg cggccgctnt aaaag 475

<210> 72
<211> 868
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<400> 72
ggncacgagg ttaactgtka caccatgatt actgaggtaa gacatgtccc tccagtcccg 60
tggcagcaac tgattttgcc tatgcaaagc cgtgctattc ttctgctggt ggttagcctt 120
tgctttagag gacttccctc ctattccatg tgcttggaag tgatgagcag agggaagact 180
ttcaacgtaa atcctggtgg tccatctgga ccactgccac caaccaaggt ggtcacatgg 240
ccagacagaa ctaatctgtg tcctacccca gaactgatgt agaaatgtcc aaagtttaaa 300
gccttggctg ggcgcagtgg ctcgcatgtg tagtcctagc actttgggtg gccaaagtgg 360
gtasagcact tgagcccagg agttcaagac taaaacctgg gcaacagcga gaccctgtct 420
ctacaaaaag tttaaaaatt agctgagggt ggtggtgtgc acctgtagtc gtagtaytca 480
ggaggctgaa atgggaagat cacttgagcc cagaaatttg aggctgcagt gaactaaaaa 540
ggtgctatgg taytctagcy tctagtctgg gtgacaaagc aagaaccctg tctcaaaaat 600
caattaaaaa acaggccagg tgttggggct tgtgcctgta atcccaacac tttgggaggc 660
catggcgggt ggatcacctg aagtcaggag ttcgagacca gcctggccaa catggtgaaa 720
ccctgtatct ctactaaaaa tacaaaagtt agccaggcat gttggtgcat gcctatggtc 780
ccagctactc gggaggctga ggaaggagaa ctgcttgaac tcaggaggcg gaggtgcagt 840
gagctggaat tgtgtcactg cactccag 868

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<210> 73
<211> 920
<212> DNA
<213> Homo sapiens

<400> 73
taattcggca gagctgcttc cctttccccg tgtttatttt cagacgaagc caagtggccc 60
gggggggaccc tccggactcc cagccttcag agaggagggc agctcgggct ttcgccgcag 120
tgcttcctgc ccgtcacgtg tgtgctccta gccggggtcg ggggagctgg tatcttggcc 180
cttctgggag gacgcgcaca gcccgaggag gcagagcccc agacgggaat gggcttttca 240
raggtggggt gcgggcgagg ggacgatgca ttatttttaa tatttgattt atttttccaa 300
ctggacttct tcccggggct ctttctgggc ccagctgcct ttgtgatccc gcgccccggt 360
cctcggccty tcacctccag cgccggggcg ccccctgctg tcggaagcgg ctgtgaccgg 420
gcagaggtgc tatctgggac tctgggttct cagcccgggg acagcgaacc gaggggcaga 480
tgatccatca gaaaagagcc ggcactgccc agccccgcgc ccctgcccct gccttttttcc 540
gggagcgcgc cgcgccgcac ccgctacggc cgyttgaccc catctttgag cccggcccca 600
agctctggga ccgtcgtgcc cctcatcaag gaagagccaa ggaccccaag gagaagagaa 660
aggagttcat gaaggcagaa atgcctgggg cccacgaaca tcccagtgtg gccctggacg 720
ggacatcatg ctgggcaaca cagctaaaat gcgggtgaag accagatttc ttgcacatgg 780
cggtgacggg atgctcccta gagagcttca agtggattct ttgcttttta ttttctctct 840
taataaaaat gtatgatgtt tacattgtca gagaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aacggcacga 920

<210> 74
<211> 724
<212> DNA
<213> Homo sapiens

<400> 74
gaattcggca cgagcaatag ccctatgatg aagaaattat tacagtgaag aaatatgaag 60
ctcagcgtcc cactattaat tgtcccatta ttaatgtgga attcaaactg gatctgagtt 120
tggggcgtgt gtgcactttc tactgctgtt gctctatcat cattagacaa gtgtatagga 180
aatacatgat gagcacctac aatccaagaa ttaagtttta ttcacactcg cgctctcact 240
actatttaca cagtaagaaa cttttaaatg agcaattaaa ggaatwaacc aaaargarga 300
aaagratacа gactgggamc camcaaactg gaatacggga agacatgaga aagatgatta 360
accaatgaaa aaaagagaag aatttcatta gagaatggga atgggagaag agtttttgaa 420
atgagtatca gattatcaat tattcattac gaagtagaac accccagagt aagcaaaaat 480
ttcttaacat ttagtaataa ctacatatcc actatattca aggtcctgtg ttaaaagctg 540
tggtggaggc tgggcatact ggcttgtgcc tataatccca gcactttggg aggctgaggt 600
gggtggatca cccgaggtca ggagttcgag accagcctgg ccaacacagt gaaaccccgt 660
ctctactaaa aatacaaaaa ttacctgagt gtggtggcgc acacccgtag tcccagctac 720
tcga 724

<210> 75
<211> 905
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (879)
<223> n equals a,t,g, or c

<400> 75
gaattcggca cgagccgagc tgccacgcct ggccccagga tcctgtgact gcctgccctg 60
gtgcaggctt tcacctgcct ggccctgcgc ccttcacgga ggctcacggc tgtgtgccat 120
cacccccatc tcgccaccgc caggcgccct tgcgcaggag aaacagggaa ggaaggggcg 180
ggcctggccc tgcgctctgc accctgactc cctgggcgat gatgggggct ggtcactctg 240

gccgggatgc ggaccccacc ctcgcccggg cccaggactc accttgtcct tgtgctgctc 300
cagccactct cgcagcgtgg ccagcacgat ctcggcggcc gcntcamarg ggtagcctra 360
rgcgggtggg gcgggagtga gtcctaggct ctggccccgc ccactcccct gtccgccccg 420
gcccctcccg gcgtctgggt ccaccgccca ctcctggtcc ttgcctttct tccagactca 480
ccaaacacgc cggtggagat gcaggggaac gcctgggcgg ggaggggtga gaggggttg 540
gaacattgtc actgcgcccc gcytcccgcc ctcccccgcg ggccgtccct caccaccgag 600
cggagccggt gctccagcag caggtccaga ctgctcaggt agcagctgcg gagctcggca 660
gcctgactgg cgctgggctc cccgtaggcg atgggcccca ctgtgtggat gacgtctacg 720
gggggcgayg gggtcagacc ggmgggggtc tacgcggtcc tcagctccct cgcttccccc 780
tgccggcctg ggcagaaggg ggcaggaaac acctttcccc ccaagcgctg agcctcctcc 840
gcgaargccc ccaccctgtg ggccccctcg agcccgaant cgcacgcgca cagagccccg 900
cgccc 905

<210> 76
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (49)
<223> n equals a,t,g, or c

<400> 76
ccggctctgt cggcgntaac gncttgacca cctangctga aaatatcgnt gtgatggccg 60
tgaccaaaat ctactcgacg ctggtgtttg ttgctsctgc cgtcatcgcc atgctgttgg 120
gcttttcacc gaaatttggt gcgctgattc ataccattcc ggccgcggtt attggtggtg 180
catcaattgt tgtgttcggg ctgattgccg tcgcaggcgc aaggatatgg gtacaaaacc 240
gtgtcgattt aagccagaac ggtaatttga ttatggtcgc agtaacctta gtgctgggcg 300
cgggtgattt tgctctcacg ctgggcggtt ttacgttggg agggattggt acagcaacct 360
ttggcgcgat tttactcaat gcgttgttaa gcagaaagtt ggttgacgtt ccaccgccag 420
aagttgttca tcaggagcca taaacagaaa accgccgggg ttaccggcgg tgcagattgt 480
tgacaacgta cgcattgttc atgccggatg cggcgtaaac gccttatccg gcctacaaaa 540
cagtgcaaat tcaatatatt gcaatcttct ggtaggcctg ataagcatcg cgcatcaggc 600
aagcttacat ttgtcatcag tatcaaccac cgggtaaccg gcggtgatgg ctttttgacg 660
agctacagac aaaaatgcat tcgtcattga ttagcccggc tagttgtcgc ttttgccgtg 720
actgctctta ccacctttt tacctgcttc agatgcgcgc tgcgggcccg tacccaatc 779

<210> 77
<211> 1305
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1046)
<223> n equals a,t,g, or c

<220>

<221> SITE
<222> (1048)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1207)
<223> n equals a,t,g, or c

<400> 77
ctcaaggatc catttgccag ttgccctgtg gtcttatggg atccaggcac actcatggca 60
gagcaggccc ctgctgcagg tttgctcatc taaagctaca agatgagcag gcccaccttc 120
gcttcattta taaagtatat ttggtcacaa cattgtatga gaagctgcac agaggggca 180
agttggatca gatttcatta taaacatgcc ttacaatatt ggttatttwa cattttattt 240
tattttattt tattttattt tattttattt agagacaagg tcttgctctg ttacccaggc 300
tagagggtag tggcatgatc atagctcact gcagccttga actcctggac tctagcgatc 360
ctcccacttc aacctcctga gtagctagga ctataggcat gtgccaccac acctagctaa 420
ttttttttgt tttgtggata cggggtctca ttatgttgcc catgctagtc tcgaactcct 480
ggcctcaagc ggttctccca cctyagcctc ccaaagcact gggcattact tscaggagcc 540
accttgccta gcttcaatat tggttattaa taaggaacag ttaagcccca ttgctttaca 600
ataatgctgt agaaatgctt catatttaaa atgtattatt taaggaatgt accacttacc 660
tgtaattcct ttggataaag atactgtttt tactagtcag gccttagaga aactgttgtt 720
taagtgaagg aaaaccctgg gtcactctga gggcaagatt agagctacag ctgcagttaa 780
attagtcaca caatgttcct ggagcactta cttcagtcag cttaatcttg gtttaagtcc 840
gccttcccag ccttgggcca aggaacaggc aggccaaagc ccacccagaa attggagaca 900
ctgagtgtgt ctcctctgcc ctctttgtca ctgggctcat ggccccctgg catcatggsc 960
ccagttccat tcccacctgt gtgtgcagag caacagagtc cagatcgtga ggaacgtggt 1020
ggagaargca gaattctggg catgtntntg cccagcttac aacaatccct gtctcccccc 1080
ggcgcccttc acaagtcccc ttttccaccc ttgcttgtcc tgccattctt gccgtccccc 1140
cctgccccag ggagtcctgc tgccccggcc tgttcttaca ctcaaacagt cccgccttct 1200
cccactntgc ccactgccag cagcagcctg gggctccatg ctcacttcca actcttgcgg 1260
atcctcggtc tgagccagag tcacctctgg cagggatggg cactc 1305

<210> 78
<211> 1085
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (653)
<223> n equals a,t,g, or c

<400> 78
ccgggnnttn gntcactatg ggggggctgg tacgcctgca ggtaccgggc cggggntccg 60
ggtcgaccca cgcgtccgcg gaccgtgggt aaaaatataa tagcattcgg tcaagcttat 120
cattcagcca tatttgtatt gtaatggttt ttcattgcaa gcaacagact ctgactctag 180
ttatcacgaa caagaagaaa aggtcttccc tctgttggga agatgtggag aaacttaccg 240
aattgaagag aaagccgaag aaccaggtct ggaaagggac agcattcagg acacgtctgg 300
caagaacaaa atgagtggct cttcaggatt ccctgctagg aatcatggcc gtggcctctc 360
cagtctgacg ccttatattg tgctttgtgt ttttatcatg ttgtcttgtg agactgactc 420
cctgtstgtc tggcggtcga tacaagttat gattccaggc cgggcgcggt ggcttacgcc 480
agtaatccca aagtgctggg atcgcaggcg tgagtcaccg cgcccagtga aaactgttct 540
cttaaagggg tgccttccct ccggtggctg tcagtcccct gggaccccgc ccggagtttc 600
cgctttcatt ccctcctgtg ggaggaagtg cagtgtcagg aatcgcatcc tanacgtgcg 660
gttatctgca ggctacagga tgggctgaag ggaaacaggg acgtcacttt aagggtttgg 720
gatgggggct ttgctggcaa aacttacttt ttgaggttct ctctttggct tgtctggggt 780
tgtttttaat atgttgggat tagaaatcaa tgtgattcca agtgtcttgt actcagaaaa 840
ttttaactgt cttggtttgc tgctgctgca ttctcctggc ttcccarcar ttaccarctt 900
atttatatat ataaatttat ataaataata aatatataca tatacaagtt tatatataat 960
caataacaaa tatatatatt tatatatatt ttyyctttt ttctttttga gacaggtctt 1020
gcactccagc ctggatgaca gagcgaactc cgtctcaaaa aaaaaaaaaa aaaaaaaggg 1080
cggcc 1085

<210> 79
<211> 298
<212> DNA
<213> Homo sapiens

<400> 79
ggcacgaggt cacggtcact agctgatccc tcaggtctgc tgcaaacaca gcatggagga 60
cacagatgac tctttggtgt tggtcttttt gtctgcagtg aatgttcaac agtttgccca 120
ggaactgggg gatcatatat gtcttagtgg acaggggtct gaagtacact ggaatttact 180
gagaaacttg tttgtaaaaa ctatagttaa taattattgc attttcttac aaaaatatat 240
tttggaaaat tgtatactgt caattaaagt gtttttgtgt aaaaaaaaaa aaaaaaaa 298

<210> 80
<211> 505
<212> DNA
<213> Homo sapiens

<400> 80
attacccttc cactaaaggg aaccaaaagc tggagctccc accgcggtgg cggccgctct 60
agaactagtg gatcccccgg gctgcaggaa ttcggcacga gtcacaatat gaccctaacc 120
tacttttcca aactcttctc ttacatcctt tctcaactat tataagcacc agtcatactg 180
tgctgctaga catacacaaa gaacaacatg cttttctgtg ccttgggcat gacatttttct 240
cttccatgca cttacttttt aactccttgt tttgtttaat tagcaaatgt ttattgattg 300
cctgcaatat gccatgtcct gtgctaggca gtgaaagtat aaagataaat aaacaagacc 360
ccgatatgca aggagatcat aatctagtgt gacagactaa aatataaata aataattata 420
ataaatcttg ttaagtgcta agatatgagt ttgaraaaaa aagaaaaaaa ttccgggaca 480
atggaaaaaa aaaaaaaaaa ctcga 505

<210> 81
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (303)
<223> n equals a,t,g, or c

<220>

<220>
<221> SITE
<222> (483)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (492)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (582)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (606)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (608)
<223> n equals a,t,g, or c

<400> 81
ggcacgagct caacctcagg aagtcagtcc ctgggagcca tgaagtgcag caatgacagg 60
cccatctgga gaagacatga cggctgggtc tgcaggaccc agctgaactc aggagcagat 120
ttggggatgg caatcagatg ctgttcttct acctcaaatg ccttgatcct tattctcttc 180
acctggacag ttcttcttca tcatccaaga tccagctcct tcctgccttc ttttaagaag 240
ccttcatgga cctctcccct gggttatgcc atcatagcca ctccatgcaa ttctctctca 300
tancacttat cttgctacat tgaactgtct gtctctctaa cagagtgtga gcccgccttg 360
aagctggaag tgaggctcca ggctggtggc attgtcctgg gctgaactgt ctcctgaaat 420
tcccatgttg aagccctaac ccctagtacc acagaatgag actgtatttg gaggtagggt 480
ctncactttn tnttttttna gttaaaataa ggtcattacg atggcccttg gtcccacctg 540
gctggtgtcc ttatgagaag agatgaggac acagcacacg cncagagaga agaccacgtg 600
aagacncngg gagaagatgg agagaggcat cagagggagc cagcactgct gacacctccg 660
tctcacattt ctagcctctc gaattgcaag gaaataaagt tttgctgtct aagccaaaaa 720
aaaaaaaaaa aaa 733

<210> 82
<211> 463
<212> DNA
<213> Homo sapiens

<400> 82
gaattcggca cgagatccta cagggtattt aaactgtagc tttttggata acctctactg 60
actggacaga aaaaatttat tttaccgtag tagttttctg taagtttact tttaaatttg 120
tagagttata aactgcctgg gccttaattg aaattagaaa taaaacaatt agatgacctc 180
aggtgagcct attacaaaat gctcttgtca taacattaaa agtcatacaa ttgatacctt 240
atttcaggtt ttgaataatt catttgaaac atgttaattt ttatactatt agcgaccaac 300
ctttttgtat cctctctttt tgaaatatta atgtacagga gttttcagaa taattaacag 360
attatataga tctgacttga ggctaggagt ttgagaccag cctggccaac attcgcaacg 420
agtgaaacct cgtctckact aaaaraaaaa aaaaaaaact cga 463

<210> 83
<211> 372
<212> DNA
<213> Homo sapiens

<400> 83
ccaagagttt tattactagc tggattatga tgttagcccg ttgtgtatct tctatatctt 60
atgttaggat tcttttctcc catcttcccg catcttcatc ttttcttccc cacagcatat 120
tcttggagag aaaggagtag gcaggagttt gctatttgaa ggcaagtagg gagagagatg 180
tggggaggct ggtcaaaaga ggaaactcaa gtttaaagca atgaaacacc aacactaact 240
tctttttcga agttgctgat ggctttgtgt ttagtaatcc agattaggtc atgaatcttt 300
tgatacagat aggttttttt gtgtgttttg ttttttattt ttgtttttgt ttggtacgga 360
gctcaatcca gc 372

<210> 84
<211> 656
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (148)
<223> n equals a,t,g, or c

<400> 84
tcgacccacg cgtccgcttc ccaatatttc tcatttttaa aaatattttt tcttacacta 60
gaatgttatt ccttgtcttt tctttggktc ttttaaaacc cttgkttttc ttcyctttg 120
ggggagmccg aattgtaaat attgrgantw ttcagtmcca gcaccatgct gaaggaaagw 180
trggtagcta atacctttt ttttttgag acggagtctt gcactccagc ctgggcamca 240
agagcaaaac tccatctcaa agatataagt gttttcaact ggcgggtaag aaaaactgct 300
gctgttggtt ctctaacttc ttacaacggt ggttcccact taatcttatt taggtcctgg 360
agccctaaaa aaaaaatctg aaaaacctgc agtctgtctt cccagaaaca cttgtgtgaa 420
acgttctggt gtttttgtgt tgagactggg tgacagagca agactcagtc tcaagaaaaa 480
aaaaaaaaag aatatacacc agcctgggcg tggtggctca cgcctgtaat ctcagcactt 540
ttgggaggcc gaaggcaggt ggatccacct gaggtcagga ttttgagacc agcctgacca 600
acatggtgaa accccatccc tactaaaaaa aaaaaaaaaa aaaaaaaagg gcggcc 656

<210> 85
<211> 238
<212> DNA
<213> Homo sapiens

<400> 85
ccacgcgtcc gctgccccca tgcagtggta gtcaccgttc tgtcccccgc gggtgctggt 60
gagaaaggta aaagggcggt tccagagcct gagggcctgt gagtgcagtt tacataactg 120
ccgaaactta aggaagcgtc taaataaaaa gaaacatgtt aacccaaaat ggtttatttg 180
ttttttttttt ttttttttggt ttccagagct catgcaaaca tgcaaaaaaa aaaaaaaa 238

<210> 86
<211> 1519
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1470)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1473)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1519)
<223> n equals a,t,g, or c

<400> 86
ccctgcaggt cgacactagt ggatccaaag aattcggcan agcagcggga caaaaaactt 60
ggactttcgc cgaaagtggg acaaagatga atatgagaaa ctcgccgaga agaggctcac 120
ggaagagaga gaaaagaaag atggaaaacc agtgcagcct gtcaagcgag agcttttacg 180
gcatagggac tacaaggtgg acttggaatc caagcttggg aagacaattg tcattaccaa 240
gacaacccct caatctgaga tgggaggata ttactgcaat gtctgtgact gtgtggtgaa 300
ggactccatc aactttctgg atcacattaa tggaaagaaa catcagagaa acctgggcat 360
gtctatgcgt gtggaacgtt ccaccctgga tcaggtgaag aaacgttttg aggtcaacaa 420
gaagaagatg gaagagaagc agaaggatta tgattttgag gaaaggatga aggagctcag 480
agaagaggag gaaaaggcca aagcgtacaa gaaagagaaa cagaaggaga agaaaaggag 540
ggctgaggag gacttgacat ttgaggagga cgatgagatg gcagctgtga tgggcttctc 600
tggctttggt tccaccaaga agagttactg aggctttctg tgcttggcct gactttggcc 660
tatgctggac ctaactttgc gtgtgtgtgt gtgtagtagg gggtcatttc tttttgggta 720
atgggaaagt tcttaagagt gtcaatgggg agggatagag ggtgggggct catggtttcc 780
ctctactttg ggagagggca cagattgcag aggtaatgct gtggcatatt gcttctgcct 840
cagtgtatca ctggagtcac aggaccctgc ccacctgagt tcccaataaa gaaaaacctc 900
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
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<223> n equals a,t,g, or c

<220>
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<222> (668)
<223> n equals a,t,g, or c

<400> 87
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Replacement Sheet

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<210> 88
<211> 1516
<212> DNA
<213> Homo sapiens

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<210> 89
<211> 887
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (881)
<223> n equals a,t,g, or c

<400> 89
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<210> 90
<211> 391
<212> DNA
<213> Homo sapiens

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<222> (1)
<223> n equals a,t,g, or c

<400> 90
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<210> 91
<211> 809
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (564)
<223> n equals a,t,g, or c

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<211> 1571
<212> DNA
<213> Homo sapiens

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<211> 1001
<212> DNA
<213> Homo sapiens

<400> 93

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1863)
<223> n equals a,t,g, or c

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<211> 1351
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (807)
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<211> 1046
<212> DNA
<213> Homo sapiens

<220>
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<222> (483)
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<400> 97
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cattcatgcg atcagagttg tagccaattt ttgaaaacct tattttcaaa ggaaataaat 120
gattcactgt aggattcctt taaatatcaa gcatcaccag tatatgcttt gatggtatat 180
gtatataact taaagttctt tcaaaagcct gatacagaaa cgtgtcccca gtttggtagc 240
aatgtggaaa acctggctag agatgatatg gagctgtccc tcagaaagca aagccatgcc 300
tggaatccct aataggctgc ttagttgtga acctgtttga tttgccttaa gcctctatcc 360
agaaacctgc ccgcttccgt ctggttaaga agccagtggt ggatattttc tttgttaaca 420
ttagaaatgc aaacattccc ttgtcaacca agaatactca aagctacttg tattggaaat 480
ggncagaagg cctaaatcca aatttcttat tttttataat ttaccataga agttttgtga 540
ttaaattctt acttctgcca gtggaggttt atgcctgaaa gtcatggggt cctgtctgta 600
aatagaccta aagagaagtg cagtatttat tctttgtagg cataatgtgt ttgtcactga 660
caagcattca tattcatccc actagtcttt tattgcagtc ttttattgtc attttcagcc 720
ttatgttgga gagctttgct ttctcatcat gttcacattg tcttaagttt tgtgagcttc 780
tgagaaagag cttggtaaag gtttaaaggg gactttgttc caccagggag cattttattt 840
gggcgtctca ccctttttcta atgaaagctg ttgtaagcca cctctgactt ggaaattctg 900
aaagtatgaa tatttttttat atcttaattg taaaatgcca gttctccatt atttagatga 960
atagtagaac actgcaccct ttgtgcagtg tttttgtttc tctactgcat tcctaccccc 1020
accaaaaaaa aaaaaaaaaa actcga 1046

<210> 98
<211> 1132
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (260)
<223> n equals a,t,g, or c

<400> 98
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gtkcctggac tgctagcaag ctgggcggca ttccggatgc tctgcccacc gtggctgcgc 120
caggcccgtg tgtcagcgct gcggcagccg ctncgctctg gtcgtgcagg tgtattgccc 180
gctggaaggc tccccgtttc accgtctgct gcacgtgttc gcgtgcgcct gccccggctg 240
tagcaccggc ggtcgcgcan tggaaggtgt tccgctccca gtgcctgcag gtgccagaga 300
gagaggcgca ggacgctcag aaacagggaa acagccttgc agctgaggac tggtgtgaag 360
gtgctgatga ctggggaagt gatactgagg aggggccttc accacagttt accttggatt 420
ttgggaatra tgccagcagt gccaaaracg tagactggac tgctcggytc caagacctcc 480
gcctgcagga tgctgtcctg ggtgctgccc atcctgtgcc tcctgggctg ccgctcttcc 540
tgccctacta catctgtgtt gcagatgagg atgattacag ggactttgtc aacctggatc 600
atgcccacag ccttctgagg gactatcagc agagagaagg cattgccatg gatcagttgc 660
tttcccaaag ccttcctaat gatggtgatg aaaaatatga gaagaccata attaaaagtg 720
gagatcagac gttttacaaa ttcatgaagc gaattgctgc ttgtcaggag cagattttga 780
ggtattcctg gagtggagag ccactctttt tgacctgccc tacatcagaa gtcaccgagc 840
tcccagcctg cagccagtgt ggaggccaaa ggatatttga gtttcagctt atgccagcac 900

tggtcagcat gctcaagagt gctaatttag gtctttctgt ggaatttgga acaattctag 960
tttacacatg tgagaagagt tgctggcccc caaatcatca gactcccatg gaagaatttt 1020
gtattataca agaagaccca gatgaattat tgtttaagta gagcatttcc ttttattaat 1080
ataaattaaa acaaatgttt acatccaaaa aaaaaaaaaa aaaaaaactc ga 1132

<210> 99
<211> 1538
<212> DNA
<213> Homo sapiens

<400> 99
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cagagggcga ggggtgcgtg tgcgtccgct tctcacctca ggtctccctt cggccccgct 120
gccctccctc gcggctgggt gacagctggg tccggtccgt cgcgggctgc ctggggtgcg 180
aggatcgcgc accccgtctt cgcgcgctgt gcctgccgcc ccgccccctc gtcccgcccg 240
tcccgtcgcg tcgcgtcccg tcccctcggg tgctgccagc cgggtgctga tgcgagtcgg 300
tggcagcgag gacattttct gactccctgg cccctgacac ggctgcactt tccatcccgt 360
cgcggggccg gccgctactc cggccccagg atgcagaatg tgattaatac tgtgaaggga 420
aaggcactgg aagtggctga gtacctgacc ccggtcctca aggaatcaaa gtttaaggaa 480
acaggtgtaa ttaccccaga agagtttgtg gcagctggag atcacctagt ccaccactgt 540
ccaacatggc aatgggctac aggggaagaa ttgaaagtga aggcatacct accaacaggc 600
aaacaatttt tggtaaccaa aaatgtgccg tgctataagc ggtgcaaaca gatggaatat 660
tcagatgaat tggaagctat cattgaagaa gatgatggtg atggcggatg ggtagataca 720
tatcacaaca caggtattac aggaataacg gaagccgtta aagagatcac actggaaaat 780
aaggacaata taaggcttca agattgctca gcactatgtg aagaggaaga agatgaagat 840
gaaggagaag ctgcagatat ggaagaatat gaagagagtg gattgttgga aacagatgag 900
gctaccctag atacaaggaa aatagtagaa gcttgtaaag ccaaaactga tgctggcggt 960
gaagatgcta ttttgcaaac cagaacttat gacctttaca tcacttatga taaatattac 1020
cagactccac gattatggtt gtttggctat gatgagcaac ggcagccttt aacagttgag 1080
cacatgtatg aagacatcag tcaggatcat gtgaagaaaa cagtgaccat tgaaaatcac 1140
cctcatctgc caccacctcc catgtgttca gttcacccat gcaggcatgc tgaggtgatg 1200
aagaaaatca ttgagactgt tgcagaagga gggggagaac ttggagttca tatgtatctt 1260
cttatttttct tgaaatttgt acaagctgtc attccaacaa tagaatatga ctacacaaga 1320
cacttcacaa tgtaatgaag agagcataaa atctatccta attattggtt ctgattttta 1380
aagaattaac ccatagatgt gaccattgac catattcatc aatatataca gtttctctaa 1440
taagggactt atatgtttat gcattaaata aaaatatgtt ccactaccag ccttacttgt 1500
ttaataaaaa tcagtgcaaa gaaraaaaaa aaaaaaaa 1538

<210> 100
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (341)
<223> n equals a,t,g, or c

<400> 100
acccacgcgg tccgggacta ttttcgtaak aatatttttc tgcaaactga tgtagttagt 60
agatgtcatt atactaatga aaggacatta gctattttat tataaagtat gcaccagcac 120
tttgcagatt cagtgaaact ctaaaaatgt ctttatctag caacataata gaaaatacta 180
tgatagacat ccaaccataa acaaattaga acaggcaaca caaatgcctt tttcagttta 240
gtgaaatagc gtacagttgc ttagttgatg gtgacgtggt aacatacata tgccgatctg 300
tgagcatttc atttggcctc tactagcttt catacctcaa nttttgagtt caggtctcag 360
agtttttctt tcatttacac agcaaaacca ccaggaaaga gactttaaaa gagactatca 420
ggcatgacaa gatactagtg aatcaaaaac gtacttaaaa aataaagcaa acgaggccag 480
gcacggtggc tcaggcctgt aatcccggca ctttgggagg ctgaggcggg tggatcacga 540
gatcaggaga tcgagaccat cctggctaac atggtgaaac cctgtctcta ctaaaaatcc 600
aaaaaattgg ccaggcgtgg tggtgggcac ctgtagtcac agctccggtg gtgtgaaccc 660
gggaggcgga gcttacagtg agcgctacag atagcgctac tgcactcctg cctgggcgac 720
atagcgagac tccgtctcaa aaaaaataat aataaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa gggcggcc 798

PCT/US99/24464

<210> 101
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (166)
<223> n equals a,t,g, or c

<400> 101
gaattcggca cgaggtagag acgggggttt caccatgtta gccaggctgg tctcgaactc 60
ctgacctcag gtgatccacc cgcctcagcc tcccaaagtg ctgggattac aggcatgagc 120
caccgtgccc ggcctatgat tctttttttt ttttttttnt tttganacaa agttttgctc 180
ttgtcaccca ggctggagtg cagtggtgca atcttggctc actgcaacct ccgcctccca 240
gsytcawgag attctccctg cctcascctc cgaagtagct gggattacag gcgcccgcca 300
ccatgcccgg ctaatttttt gcatttttag tagacatgag gtttcatcat gttggccagg 360
ccggtctcaa actcctgacc tcaggtgatg cacccacctc agcctcccaa agtgcaggga 420
ttacaggcat gagccaccat gcctggccat gattcttaag agaattgact gggcctcatg 480
aataaaaaaa ttagaaaatc tggtcatttg catttgtcac tcaatcactg tggaatccca 540
tttcccgagt gcatttcatg aagcagatgg gactactgta tggaaaaaca tttggcatgt 600
attccaagtg tcagattatt ctgtcttggt ttgtatggga aaatctgcgg gttgtggaat 660
attaggttct acttcacaca caaaaaaaaa aaaaaaaaac tccaaggggg ggcccgggta 720
cccaattccc ccctataatg agtccgtatt tacaatcccc t 761

<210> 102
<211> 1303
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1170)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1199)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1214)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1231)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1243)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1247)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1265)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1276)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1283)
<223> n equals a,t,g, or c

<400> 102
ggcacgagat gtaatagtgc tttctgggaa tgtyctcycc gtatttgata gtggtccctg 60
aaatactact tggtatttgt aaacaaatgt ctgtggtttg ccttccaagg actttaatgt 120
aggcttatct ggctgaagaa ttttgtgaga aatgctcacg ttagtgtctt ttgtctttct 180
cttgctcttg ttagagtcta tgatttagag gatgtatgct tggctgtgga atatctcgga 240
gctgaagaga agaagccagg tcttagcatt ctttctatat aaatgttttc ataccttacc 300
ccattttcaa tatggtacat ccttcttcaa ccatacatgt tttctctcag ttttaggaat 360
tgtgttttct ccaaaagaaa aacttccagt cttctctctc agtggtgaag gagcaatcac 420
caagtgtcca caactggaaa gaggattgat aatctaacta cttcttacac agatgtagat 480
ttactcttcc tgtatttatc ttaccttcac cttcacttgc aaaggtgact gatgattcct 540
acttctgtgc ctttgggga ttttgtaatg tggatttgtt tgtttcttgg atttcactgc 600
atgtaaatta agattcagca ttataattat gttaatctgt tacctgttcc tattcgtcta 660
ctcactttct gctttcaaca ttttcttgcc ctttttcccct gtggtttttg cttctctctt 720
tctctctctt tctctctctc tctctctctc tctctctctc tctctgagta ttgttgttgt 780
attttggggg tttttgtgtg tgtgcccctg tatttgtctc cttttgtctt gccattgtgg 840
tggattcaag ttgtgtcaat ttaagccaaa ctggaactac atttaccaga attccttcc 900
ttgcatagct ctggtcagca tatcccacaa cagacatttt acatgagatg cggcaggtgc 960
aagagcatag cacagacatt gattccatgt gtgtaaggtc aatgaagggc aggatgtgct 1020
actgtagatt acacacatca ttgctcatct actgatacat gttactagtg tgtggcagcc 1080
agatgggctc atctactgat acatgttact agtgcgttac tccagatggg ctacttttcc 1140
ttcagcttcc ctcatttta gcctaatttn tagccaggtg gattttcagt ttcctatgng 1200
caccccatca ctgnagttgc tgttttggag ntggtaaacg acnaagngtt cctttgattt 1260
gctgntggct tacagngcca ttnaaaaaaa aaaaaaaaaa aaa 1303

<210> 103
<211> 1248
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (310)
<223> n equals a,t,g, or c

<400> 103
gaattcggca cgagagcctg taaaaaatgt ttggctatca attatacaca tcaagttgat 60
atgctccagg actgggggsc atttatgctt gcaattarat ctgaggggay ktgaggagac 120
ccacatggtt agccagccct cctttctcca ccagactcag ctttttgaa gcttgcagag 180
atgaggaagc ttaattaaac ttatcggaga tctctttttc catcctagaa attggagagc 240
catgatcata ggtatagaga tgttgaaatc ttaggtcctt ctttcttctc ctcttatacc 300
atcccctctn cccatgtact cacatagcca cagtcacata cacatgcaga tttyaagtca 360
aacaaatttg ttaaaaatag attcttagam cagccacggt ggctcacacc tgtaacctca 420
gtactttgca ggcggatggt ggarattact tgaggccagg agtttgagac cagcctgggc 480
aaataggtak accacatctc agaaataaat aaaaagcaaa aaataaaaat aagtagattc 540
ttgacttgct ttgggtctca tcagaagcca aaacaatcat ccaagtctaa gtatggccac 600
tgatgtctgc agtgctggtg tgagakattg ggtcagtgca caccaattct ccacccataa 660
tcacaaatca gaggccacac catggcttcc agcctcctaa tcctgtataa aagttgatgg 720
ggtgtgcaat ctaaaatgat aagaaaagat tctcaattaa gcggtcttga actggtgcag 780
tttcagaccc aaactcaaca accccagatc ttctttagca atccacagag aagaaggatt 840
aatgttcagc tttgctaaca aatattttaa atggtgttct acatacatct gagggctacg 900
aaggttagca ctccaaagca ggtaaatatt tggcttcttt tattttactt catggattct 960
tcctttcctt tccttccctg caacctcata ctctgagata agaggaccca gccaytggat 1020
ytcaaagcaa atgttaaaat accaytccyt ccacattcat tcagccactc aaatatttaa 1080
ttagtgtcta tcatatctaa ggcattatgc taggtactgt tttcaattta gtacgagtac 1140

09664400 .1.1 09664400

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tttttataat acaatattcc cacagacagt gtgttagagt caaattcatc tttacatgat      1200
gtagtaccaa attcccaaaa aaagaacttc ccttttagat tgggcagt                   1248


<210> 104
<211> 411
<212> DNA
<213> Homo sapiens

<400> 104
ggcacgagct gcaccactgc gctccaggac agggcaagac tccgttcaca acaacctcta        60
cctcccgggt tcaagtgatt ctcctgcctc agcctcttga rtagcttgga ctacaggcat       120
gtaccaccac gactggctaa tttttgtatt tttagtaaag acggggtttc accatgttgg       180
ccaggctggt cttgaattcc tgacctcaag tgatccgcct gcctttggcc tcccaaagtg       240
ctgggattac aagcgtgagc caccacgccc ggccaggatg ttggttttct tattgagttg       300
taggaattcc ttttatatcc cagatgcgaa ttctttttcc aatatatgtt ttgcaaatag       360
ttcctttcag tctatagctg gtctttgtat ggtctttttt ttttttttct c                411


<210> 105
<211> 981
<212> DNA
<213> Homo sapiens

<400> 105
tgaattggaa ccagaataga cctccgagct gggaactgtg gatccaaggc tgcccccacc        60
ccctgggtct ggcacgagat ctgcactccc cagagggggc aggtggtcct ggagcctagc       120
ctacctgccg agagtcagag gtggctgcag gggaaccatg gcagccctcc ttctcacact       180
catcctgggc accctgcacc agcagaaggg tttacatgta caatcaccca tccctagccc       240
ttctgggagg aagcatatct tacggatggc gaccttgagg ctcagggagg ttaaggtgcc       300
agcctgagat cacacagcca gtgagaggca gagacagggc ttaaactcca gacgatggct       360
ccagagcccc ctctcttttc catgccctgg gctgcctctt tccccagtgc accttgcttt       420
ttggaaccag atgaccaatg tggaaagaca tgaactgatt caatcagagt gtatggagaa       480
gggacttaga gaccctggta tttttaaagc tccctgtctc tagtaaaaat acaaaaatta       540
gccaggcgta gtggcaggcg cctgtaatcc cagctactcc agaggctgag gcaggagaat       600
tgcttgaacc tgggaagtgg aggttgccgt gagccaggat catgccactg cactccagcc       660
tgggcaacag agtgagactt tgactccaaa aaaaaaaaaa aagaaatcag atactaacaa       720
ctctctcctt ctttcttttc ttcccaattt ttgtttaatg tatcatttct aaattcatgg       780
tttatattta tatatgtcct taatcctcac tcacattggc cctacaggta gattcattgc       840
tcactgtcag ttctcttgct gggattacac gtgtgagcca ctgggcccgg cttagttttt       900
ttatttaaag ataagggttt tttttgtttt gttttgtttt tgaaacagag tgagactttg       960
actcaaaaaa aaaaaaaaaa a                                                 981


<210> 106
<211> 748
<212> DNA
<213> Homo sapiens

<400> 106
gaattcggca cgaggagccc ttggccagct ctgagacgct ttgtgagacc ccaaggtggg        60
tgttctagaa ggaagaagct ttggcttgct tactggaacc aagacaaaaa ttccaaataa       120
aattccaaat aaaaatgtaa atcgagtttt ttcctcgatt gtcacagaga ctctggtgaa       180
tatgttaagt tttcagaaag cgattctttt cctagcaatg ggctgcttgc cttgcattcc       240
tcaaggcctg tcctgtgcct tccatcctgc atccttccac aaggctctga gtggctgtag       300
gaccctcata tgacaggagg aggaggctga ccttggccaa ggtcacatat cccttctttt       360
atccattcga aaggctcttg ctgttgactg actatgcagc agacatagct gggccctggg       420
gagatgtgca aggcaaacac acccaagaga ttcctgcctt cactgagcat gcaccgcaga       480
gacacgctca gtcacttctc cctgagctct cgcagcacct cagacatgcc tctagtttaa       540
gcctctactt ttaaatgtaa tccctgtgca tggcacacca taggtactca aacaggggct       600
ggtggaactc ttgagggaga gggagtgcca ctgattcctc ttcctgagat ggaagtgtgc       660
gtgcatccgt accaatgtgc atgcatgtgt gtgtttgggg gaagacatag taaataagct       720
gagtgtttct tgttctccat ggtctcga                                         748


<210> 107
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<211> 321
<212> DNA
<213> Homo sapiens

<400> 107
ggcacgaggt cctcaccagc tgttccacgt gctgtgcgtg tgtggctctg tagctggccg 60
gcagtgccgt gtcgggtgaa gctgggagag tccctccttt gcagacagaa ttcctgccat 120
tcctcacttt tatgactgtc caggagcaag aacgtggcct tctggagttg aggtagaatg 180
ggcaagaaat cctctacatc attctattta ctgctccttt gtgttttaaa aacagcttta 240
ttaaaatgca tacaccagcc tgggcaaggt ggcaagactc catctctaca aaatattttt 300
aaaaattagc ggggtgtggt g 321

<210> 108
<211> 1477
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1460)
<223> n equals a,t,g, or c

<400> 108
aattcggtca gtagccgccc tcctaggcgt ctggagnaaa ctaggcaatt ttnccgggta 60
gagtggagga acctgtagtt ttcctctccc cgggccagaa agtagccaaa acgaaagagc 120
gccmgcscag gcaatactag cccctctgga gcacggagct ccttccccaa agacatgaag 180
ctattggaga actcgagctt tgaagccatc aactcacagc tgactgtgga gaccggagat 240
gcccacatca ttggcaggat tgagagctac tcatgtaaga tggcaggaga cgacaaacac 300
atgttcaagc agttctgcca ggagggccag ccccacgtgc tggaggcayt ttctccaccc 360
cagacttcag gactgagccc cagcagactc agcaaaagcc aaggcggtga ggaggagggc 420
cccctcagtg acaagtgcag ccgcaagacc ctcttctacc tgattgccac gctcaatgag 480
tccttcaggc ctgactatga cttcagcaca gcccgcagcc atgagttcag ccgggagccc 540
agccttagct ggtggntgaa tgcagtcaac tgcagtctgt tctcagctgt gcgggaggac 600
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tgtgacatct acagctataa cccagacttg gactcagatc ccttcgggga ggatggtagc 720
ctctggtcct tcaactactt cttctacaac aagcggctca agcgaatcgt cttctttagc 780
tgccgttcca tcagtggctc cacctacaca ccctcagagg caggcaacga gctggacatg 840
gagctggggg aggaggaggt ggaggaagaa agcagaagca ggggcagtgg ggccgaggag 900
accagcacca tggaggagga cagggtccca gtgatctgta tttgatgagg aggagccgag 960
gccccagctt catccagctt caaccaatgc ctggacctgt ccacctgaga ggcccctggg 1020
gcctccccag ctgctggcca gaccctggcg ctgccacagt cctggcactg cccaaggcca 1080
tacctgccta gccctttggc tccatcctgt ggatgcccac tcacccctca gactcctgct 1140
gcccatgctg tggccggact tgtcagcagg gggcctggtg ggaggagcga ctgccctgcc 1200
caaatgaact gccacagcag ggacagctgg accgcagagt ttatttttgt atttctactg 1260
ggcctgcaca ctccagccca aagggtctgt gcggaggccc cacgagcagg ccccagcagt 1320
caccggctct ggtcttgggc cggccccggt gcccacctgt acccccacct cgcccatttg 1380
gccgcgtgca ctgagtgtca ctttgctgca gctcgtttct ttccaataaa agtttctgtg 1440
acttaaaaaa aaaaaaaaan aaaaaawaaa aaaaaaa 1477

<210> 109
<211> 996
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (834)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (996)
<223> n equals a,t,g, or c

<400> 109
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tgtgccatga acctaaagca catccgtttg gtctgccagt aggctggtat ggcatgctgt 120
aacccctata aatattattt ctatttatcc tgctcagtgt gtttcctgta acaaatcgtt 180
caagaaactc tggtcccttc atgaacatat caagatcgtc catggatatg cagaaaagaa 240
attttcctgt gaaatttgtg agaagaaatt ctataccatg gctcatgtgc ggaaacacat 300
ggttgcacac acaaaagaca tgccattaca tgcgaaacct gtggaaaatc attcaaacgc 360
atatgtcact caaggtgcac tccktgcagc attctrgaga gaagcccttt agatgcgaga 420
actgtgacga aaggtttcag tacaagtacc agctacgctc ccacatgagc attcatattg 480
ggcacaaaca gttcatgtgc cagtggtgtg gcaaggattt caacatgaag cagtacttcg 540
acgaacacat gaaaacacac actggagaga aacccttcat ctgtgaaatc tgtggcaaaa 600
gcttcaccag ccgccccaac atgaagagac accgcagaac tcacacaggc gagaagccct 660
atccatgtga tgtgtgtggc cagcggttcc gcttctcgaa catgcttaag gcccacaagg 720
agaagtgctt tcgggtgacc agccccgtgg aatgtgccac ctgctgtcca gatcccactt 780
acaacttccc cagccacccc agttccttct gtggtgaaca cagccacaac cccnaccctc 840
caatcaatat gaatcctgta agcactcttc ccctcgggcc atcccccacc ccttctcaca 900
ccgcacatcc acccacaccc tcaccaccca caccamcttc ccatccctcc aktccctcac 960
ctcccgccac ctccagctct ctttaagagt gagccn 996

<210> 110
<211> 416
<212> DNA
<213> Homo sapiens

<400> 110
ggtcgaccca cgcgtccgat ttagacaagc aaactccaga taactactct aagttcacca 60
gtgtttatag taactaaagc agcaacatgc ataaaattgg gcactgtttc atgagtttgt 120
tttctattaa aaaacacaca tacgatgatt gcaaaatgaa atgaaatttg tttgttttcc 180
tcttctgtct agcatggata tcagctgagg gtttgttggc tgtttctcat tcaaatgcaa 240
tagaaccatt gtcctttggt tttcatctgc tccaaaaaaa aaaaaaaaaa aaaaagggcg 300
gccgctctag aggatccaag cttacgtacg cgtggcatgg gaacgtccat agctcttcta 360
wagtgtccac cyaaattyca attycactgg gccgtcgttt taacaamgtc gtgaac 416

<210> 111
<211> 1378
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1108)
<223> n equals a,t,g, or c

<400> 111
tcgagttttt ttttttttt ttttttatg tttacaacag ctttattcat aattgccaaa 60
acttggaaac caccaagaag tctttcaata ggtgaatgga taaactattc atctagacaa 120
tggagtatta ttcagtgcta aaaataaatg cactattaag ccatgaaatg acatggagga 180
accttaattg catattatta agtgaaagaa gccagtctga aaaggctaca tactatatga 240
ttccaatatg acattctaga aaaggaagaa ctatggcgac agtaaaaagt ggttgccaaa 300

gaaagatcat gtcctttgca ggaacatgga tggggctgga ggccattatc cttaacaaac 360
taacatagga acaggaaacc aaatattcca tgttctcaca agtgggagtg aaataacatg 420
gacacaaagg aataacatac tggggcctac ctgagggtgg agggtgggaa aagggacagg 480
accagaaaag taactattgg gtactaggct tagtacctgg gtcactaaat aatctgtata 540
acaaaccccc ttgtcacgag tttacctgca catgtacccc ctgaacctaa ttttttttt 600
aaagtggttg ccaggggatt agggaagaaa gggatgaaca ggtgaagcat agagaagttt 660
tagggcagtg aaactattct gtatgattct ataattgtag atatcatcat acatttgtct 720
aagcccatac aatgtacaac accagagtga atcttcatgt aaactatgga ctttgggtga 780
taatgatgtg tcmmtgsttt caaaagtgtc ctctaacatc tcctctatga tcccagcctt 840
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ttgcatggcc ttcatcactt ctgtgctctt ctgcagggaa ccagccactc gcaagaccgc 960
gagctggttc ttcatcccca tgagcactga gttcatgtgt gctttggatg catacagctt 1020
gctcacagcc ttccttgacc tgatcatctc cttggccaga actatgcaga catccttctg 1080
gcccttcttg gcagcatctt tcacagantc gtttcacttt ttcttcttct ctttggatat 1140
cccttatttg cctgtcaaca actctcattt cctttcttat cttcaatgac cactcattga 1200
ccagttcttt gggcggcttc tcctgggtct ttccaaacag ccccatgacg aactgaaccc 1260
gtcttgcccc ttccggcttt cagttccccg cgcccaggca ggtcacgggc agccgcctgg 1320
gcggggcccg cggaaaagga ggtagtccca acccccagag tagggagcgg ctcgtgcc 1378

<210> 112
<211> 340
<212> DNA
<213> Homo sapiens

<400> 112
tcggcacgag aaaatttttt ttcttggatt caagattcaa agataaatat ttaagtgttg 60
attgtattac tattggattg gatttgatct tagaacaagc agcatacact taaatcaagg 120
ctagaaaggt atttttaagt gttacaggat actgtaaaaa catattcaga tgtttggttt 180
aaaatatagc ctgggatgct gccaagcaat gctcctcagc aacttggtgg taagtgcttt 240
gtataatcct gtcttaggtt tgtcttgttt ttaatgtact ttagatactc catcctccat 300
aagatgaaaa agaaatcagt ctacattttt aaatgtttat 340

<210> 113
<211> 355
<212> DNA
<213> Homo sapiens

<400> 113
cggggtcgac ccacgcgtcc gggaagctac agccagcttg gtaattgaca gccctgacta 60
tgaccttata tttgtgtctc ctttttcctt atttcacttt ttttcccctc tcagccttgt 120
tgcccagaga ttgtaccccc caacaaataa ttaattatca ctaaggtttg ccttggcaca 180
tcccctttggc ggctttgcca gcagacgcaa gcaggtaatg tgaaccagac accgtgctag 240
gtgtgggaca tcaaatggtg aacaagacag atttttgccc gacccttatg cagttttcga 300
cctagtgaga gagacaggcc atatgctatt aaacaacaat aaaaaaaaaa aaaaa 355

<210> 114
<211> 427
<212> DNA
<213> Homo sapiens

<400> 114
ggcacgagaa aggagccaca tttcttctcc tttcacctgc atgtcataag gtggtcatgg 60
atatattctt tcatattctt gctaaaatac tcattgctgg aagtaacaca agggtatcaa 120
atttgtataa acaacagtat gatttagttc tctaatataa taatgcaata taacaaaatg 180
agtccattca actgttgtcc attcaactat accttaatat atattatttt attgatgctt 240
atctatgtat acattagttc tgtgcacagt ctagtggata gtgatctgtt aaatggataa 300
atgaatgaat ggctgaagtt ttatccttct gaatggatga gtggcctctc tagttcattt 360
tcaagcctcy agggcyatga tacakgtttc ctatttccag atttttcttt atgttctctc 420
tttattt 427

<210> 115
<211> 406

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (388)
<223> n equals a,t,g, or c

<400> 115
ccctgggtgg gggctggccc ctgaaagtaa accnagtctg acctcnttcc tccgggaagg 60
cctaaaagag acacagatag cctcctcttt taccctggcn ttaaggaaaa gcccatttta 120
ttaacaaaag tattagacac gactgccata agaaatttgc tgtgtgagaa taaagaacaa 180
gggagtagga gggtgggaca gagaagggtg agaagttggc cttccgtgag ggccacctgt 240
cagttgtcct ttgtgccttg tgacatcaaa actgaaatgt ttgtattact gttgtcccat 300
gacttttttt ttctgtgtca gacatacaaa ttgaatttgg ttgtaatgtt ttaaacgtaa 360
taaagaattc ttacctanaa aaaaaaanga ggggggggccc ggtacc 406

<210> 116
<211> 2076
<212> DNA
<213> Homo sapiens

<400> 116
ctgcaggaat tccccgggca gcgtcttggc ggcagttggt ggaaccggag cttcgagtcc 60
gtccccggtg ctgcctgcgc gttcacctga gtctcgctgg agctctttct gcccgcccac 120
ctcatctcaa cccactttcc gcggggagcg gcgccaagct gggccttcct cggatcaggc 180
gtcccctgaa gtcggcacgc ccctctgcgt ccccttcgg tcccgctagg accccgtccg 240
ggctgccgtc gcctcgtcgc tatggcgccc accatccaga cccaggccca gcgggaggat 300
ggccacaggc ccaattccca ccggactctg cctgagaggt ctggagtggt ctgccgagtc 360
aagtactgca atagcctccc tgatatcccc ttcgacccca agttcatcac ctacccctc 420
gaccagaaca ggttcgtcca gtacaaagcc acttccttgg agaaacagca caaacatgac 480
ctcctgactg agccagacct gggggtcacc atcgatctca tcaatcctga cacctaccgc 540
atcgacccca atgttcttct agatccagct gatgagaaac ttttggaaga ggagattcag 600
gcccccacca gctccaagag atcccagcag cacgcgaagg tggtgccatg gatgcgaaag 660
acagagtaca tctccactga gttcaaccgt tatggcatct ccaatgagaa gcctgaggtc 720
aagattgggg tttctgtgaa gcagcagttt accgaggaag aaatatacaa agacagggat 780
agccagatca cagccattga gaagactttt gaggatgccc agaaatcaat ctcacagcat 840
tacagcaaac cccgagtcac accggtggag gtcatgcctg tcttcccaga ctttaagatg 900
tggatcaatc catgtgctca ggtgatcttt gactcagacc cagcccccaa ggacacgagt 960
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gaccaggagg aggagatgga ctatgcacca gatgatgtgt atgactacaa aattgctcgg 1140
gagtacaact ggaacgtgaa gaacaaagct agcaagggct atgaggaaaa ctacttcttc 1200
atcttccgag agggtgacgg ggtttactac aatgagttgg aaaccagggt ccgccttagt 1260
aagcgccggg ccaaggctgg ggttcagtca ggcaccaacg ccctgcttgt ggtcaaacat 1320

cgggacatga atgagaagga actggaagct caggaggcac ggaaggccca gctagaaaac 1380
cacgaaccgg aggaggaaga ggaagaggag atggagacag aagagaaaga agctgggggc 1440
tcagatgagg agcaggagaa gggcagcagc agtkagaagg agggcagtga agatgagcac 1500
tcgggcagcg agagtgaacg ggaggaaggt gacagggacg aggccagtga caagagtggc 1560
agtggtgagg acgagagcag cgaggatgag gcccgggctg cccgtgacaa agaggagatc 1620
tttggcagtg atgctgattc tgaggacgat gccgactctg atgatgagga cagaggacag 1680
gcccaaggtg gcagtgacaa tgattcagac agcggcagca atgggggtgg ccagcggagc 1740
cggagccaca gccgcagcgc cagtcccttc cccagtggca gcgagcactc ggcccaggag 1800
gatggcagtg aagctgcagc ttctgattcc agtgaagctg atagtgacag tgactgagtc 1860
ccagggcatt cagggctggt tcagacacca ttattgtgag cagcaaagca cttttctagt 1920
ggtctgtttg tgagcctttc acttgtttgt tccccacccc caaacctttg ctgttaataa 1980
agtcaacttc tytttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaaa aaagggcggc cgctctagag atccaa 2076

<210> 117
<211> 503
<212> DNA
<213> Homo sapiens

<400> 117
gaattcggca cgagggtaga cctactttgc aagaaacatt aaatgtagtg ctttagagaa 60
aaagacgata atatagatca gaaactcata tcaacataac aaaaggagga acatcaagaa 120
tgaatatgta aaggtaaaat acatttttta tttgtcttat tcctaactga tctaacaata 180
actttttca aaatagtaat aacaactatg cattcaatta gatataaatg tatattattt 240
tgtatgttta tgcacaagtg aaatgaatta ctagcaataa tataagagat aagagaaaat 300
tttgttatta tagggtattc atgccattag tgaactagta tagcatattt gaaagtagtc 360
ttggattcct tgtaatgcat attgcaaatt atagggcaac cactaaaaag attaaaaaaa 420
aaaactcgag ggggggccgg tacccaattc gccctatagt gagtcgtatt acaattcact 480
ggccgtcgtt ttaccacgtc gtg 503

<210> 118
<211> 497
<212> DNA
<213> Homo sapiens

<400> 118
ccacgcgtcc ggttcggctc cgcccctgcc ccccagccct cgtgtgtcca caccgcagtg 60
cctctgcccc tcgggggact ggacacacat cctgccagag gcgctacgaa gctttgccca 120
gatgaagcca ggtgggctcc gcgttcactc ccactctccc gaagggtgct ggcctcccca 180
gggtttgcct tcttacggat ttagacgagg ttcgaggctc acctatcagg gcagctctca 240
ggattgtcat tttcctcttt gcctgtgggt ttaacttttg tatttttta atcacaagtt 300
tgatacaaaa tgtttttatc gtactctttg gagatgccca ttctactttt gaatttagct 360
tttactaatt cgcatctgga agctcagcaa gtgcacaagc cttactttgg ttaccgtgga 420
aaccactgcc acccctcccc gatgtggtgc gctcaataaa aatgctggaa ttcaaaaaaa 480
aaaaaaaaaa aaaaaaa 497

<210> 119
<211> 1106
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (864)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (988)
<223> n equals a,t,g, or c

<400> 119
ggcacgagct cgtgcgaatt cggcacgagt caacctctca aatacctgga atgacaggca 60
catgccacca ctccttgttt agtttttaa ttttttcatt ttttctagcg attgggtctc 120
cctttgtcgc ccaggttggt cttgagctcc tgggctcaaa tgatcctctt gcctctgcct 180
cccaaagtgt taggatcaca ggcatgagct actgtgcctg gcctaaatca tattcatatc 240
actaacccag tattcctggg ytaaactata aatatcccag gaaaaartct ttgtttgctg 300
caaaactgta taaagctgga atcaaatccc agccctgccc cttactaggt tgatctggar 360
aagtttttaa cctntttgca acttcaaggt ccaccccgag tcctnatcta taagataggg 420
aggacaggtt agctaaaagg aacaaatgga aatacctagt aaagtaactg ataaatatgc 480
caatgaactg tatttctggt aataccttta ctgagaatta gtctgcaaga ctgattaata 540
tccaatgtga tggttaatga agaatgaagc attctagcaa tctgacatgg gccccctgtg 600
taaaagggat cgcacacaca gagaaaaaag aagtaatatt gggagagaac agggctttgc 660
ttaaacagaa cagtatgggc caccagcagc agtgagagac aggtaaggcc tctgtgagcc 720
ttcagtcggc agtgggtcat aagaaaatag aaatagtgat caaaccagga agagagaatg 780
aaacccattc tcactctttt aaaagcttct gtttggagta agcccaatgg ggagccatca 840
gtgtctctga catccatatc atcntattat acttccttag ctcaaaccac actcaagaaa 900
gcacaggaaa tcagaaccac agtggaagat ggatgagaag ctggaagagg aagtgttcag 960
caatggcaca ccattctttg ccttattnta tgtccctgag cttgttcagc aacagcagca 1020
atctttctta aaccaaaggg atccatgctt ggatcttctt cacaggggac aagcctgcaa 1080
gccagatacc atttccctgc taacat 1106

<210> 120
<211> 625
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (119)
<223> n equals a,t,g, or c

<400> 120

ccnccnggaa ccancttatg acccatgatt ancccccaag ctcggaaaat taacccctc 60
aacttaaaag ggaacccaaa aagctggnag ctccccaacc gcgttggccg gcccgctcnt 120
agaaacttag tggaatcccc cccgggctgc caggaaatcc ggccacgaga tttttagtag 180
agacatggtt tcatcatgtt ggccaggatg gtctccatct cttgacctcg taatcctagc 240
actttgggag gccaaggcgg gaggatcgtt tgagcttagg agttcaaggc cacctagcca 300
acataatgag agcactttgg aagcccgaag cgggtggatc acgaggtcag gagatagaga 360
ccatcctggs taacatggtg aaactccatc tctactaaaa atacaaaaaa aaattagcca 420
ggcgcggtgg cgggcgcctg ttgtctcagy tactcgagag gctgaggcag gagaatggcg 480
tgaacccggg aggcggagct tgcagtgagc caagatagcg ccactgcagt ccggcctggg 540
tgaaaaagcg agactgtctt aaaaaaaaaa aaaaaaaact cgaggggggg cccggtaccc 600
aattcgccct atagtgagtc gtatt 625

<210> 121
<211> 666
<212> DNA
<213> Homo sapiens

<400> 121
agacttgcct acaaaggaga ccactaatca ctagcatgct gaataaacat gaaagttaac 60
ttaaacatta atttacttat tatcaaaagc ttatctgctt ctgctggtgc aatgaactct 120
gaatgggaaa ttgccagtgg tgaatggtag ataggtgaat ggcttcaaga aagtgtgctc 180
tgtgctttgg caggagcagg gctaagctga gacatggtcc tagtggccca tccatgggct 240
argcaggaat gggtgggaag agggcagggg aggcttcccc ggggcctgca gattgtgttc 300
ttaagrgttt tttccttcag tccttagaag ctcagctgaa aggaatgact gcggccggat 360
gtggtggttc atgcctgtag tcccagcact tagggaggcc gaggtgggca gatcacctga 420
ggtcaggagt ttgagaccag cctggccgaa ctggtggaac cccaactcta ctaaaaatac 480
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agaggaattg cttgaaccca ggargtggar gttgcagtga gcccagatca agatcacacc 600
actgcattcc arcctgggca acagarcaag caagattcta tctccaaaaa aaaaaaaaaa 660
aaaaac 666

<210> 122
<211> 857
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (800)
<223> n equals a,t,g, or c

<400> 122
gaattcggca cgagcgcaat tcgtacaagc tctcagcccc atgctttttc ttcctctgcc 60
gtgtttaccc ttctggagtt gcagaatgaa tcacccaccc gagggaagca cggttgtttt 120
tttttytctt ttctttttt ttgagacagt cttgctctgt tgcccaggct ggagtgcggt 180
ggtgcaatct cggctcgctg caacctctgc ttcctggttc aagcggttct ccttcctcag 240
cctcctgagt agctgggagt acgggtgtgc gccaccacgc ctggctaatt tttgtatttt 300
tagtagagat ggggtttcac catgttggcc agggtggtct cgaatgcctg accttgtggt 360
ccacccgcyt cggcctccca aagtgctggg attgcaggtg tgcgccgccg cgcccggcca 420
ggctttttt tctctaggcc tgctgtggcc accaaggctg gggaccaggg ggcctccagg 480
gacagggatc ccaagttgca cgttaataca cggagccctt tytgagatgc aggttctaca 540
gggaactgga ttccacytct tttggggaga tcaacccagc agcccaagga tcccctgatg 600
gtgcctgagc acagctgtga gaaggggta tctggatcct tggggtgaca ggatgggaga 660
ggtggagcat ggcctgcagg ctgcccccag aggccttagg tctctgctga ctagctagaa 720
ttctgaaaac tgtgttatgt aagacgttta gcatctgcag tgccaaataa aggtgacccc 780
cacaacgaca taaaaaaaan aaaaaaaact ggaggggggg cccggtaccc aatcgccgga 840
tatgatcgta aacaatc 857

<210> 123
<211> 658
<212> DNA
<213> Homo sapiens

<400> 123
gaattcggca cgagaaaaat gaccctatga ttgtgtcttt taaaaaggcc aagcccaatc 60
ctcttcaacc ccggctcacc ctctggtggg cccacgttgg gcacaacttc cccaactgat 120
gggcccttgg cttcagctat cctccttgcc gcaatttcct gggcaaagat gcttctctwa 180
ccagatgttg ctgattwccc ctgtggggya aaaagaaaac ccakgttact gatgctcatc 240
atcccacttt cctctcaacc tctttatatc aaggcctctg gaacaaagag ataaaagggg 300
attgctcaat ttccagggat cacaacccta gttctcagaa aaaggagarg tctataagag 360
taaaggtctt agactctgac agacttgggt tgaagttctg gctcttctac ctattagatg 420
tgtggtgttg gacaagttat ttawcwcttt ggggtctcag tttcctcata tgaaaaatgg 480
gaataaggac tcctcatccc caaggtatca tcatgatacc tgccttatat gtttgttatg 540
aagattaaaa gaagtaatgg gtatgaagtg cttagtatga tcctgctttg taaattaaat 600
tgcttatcat cattaaaact acctgcctgg agaaaaaaaa aaaaaaaaaa aactcgag 658

<210> 124
<211> 709
<212> DNA
<213> Homo sapiens

<400> 124
gaattcggca cgagcaggtg tttgcctcca catctgcatg gtggtgagca acagcaggta 60
cctctgtcct tgacatgcaa ggttagttgg cacaaatgct ytcrgaaagg atggcttcaa 120
gtcccccagg cacctgctga aagtggggga ctgggatggg agaataagat tttatgcatt 180
ttttgttttt tgttttgttt tgagacagag tctcactctg tcacccaggc tggagtacag 240
tggcatgatc tcagctcact gcagtctctg tctcccgggt tcaagcgatt ctcttgcctc 300
agcctcctga gtagctggga ttacaggcac ctgctaccat gcctgactaa tttttatatt 360
tttagtagag acagagtttc accatgttgg ccaggctggc ctcgaactcc tgtcctcaaa 420
taatcctagc actttgggag gccaagaagg gcggatcacc tgaggtcagg agttcgagac 480
cagcctggcc agcatggtga aatgccgtct ctactaaaaa tacagaaatt agctgggcat 540
ggtgctgtgc acctgtagtc ccaggtactc aggagactga ggcaggaaaa tcgcttgaac 600
ctgggaggcg gaggtttcag tgagctgaga ttgcgccatt gcactccagc ctaggtacca 660
agggtgaaac tccatctcaa aaaaagaaaa aaaaaaaaaa aaaactcga 709

<210> 125
<211> 1572
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1146)
<223> n equals a,t,g, or c

<400> 125
gaattcggca cgagttcccc tggcctcaaa agaggaatta acacttttgg aggaagggta 60
agtagagggg tagaatttaa agatactaag taaaattgga gtggaataag gtataaatgm 120
gtaatgcctt ataraagaga ttccaagctt ttcaagactt tggtgraaga ctgggttggg 180
ggaatatgaa atggtgccac tttctcttga ttgtgttcct atctccattc attttctgtc 240
tttttcaggg ttgcttcttt tttcccatct ctaaatgaga gttcttcccg tctctaaatg 300
agaattctkc ccaagctctg gtcagttcct tttnctctct cctctctttt gctacaatgg 360
gtaaataagt ttagcaagac ttagcacacg ttgtcaatat acaaaaaaat cagcaagaat 420
tctatattct aataatgaaa aattggatac gaaaagtaaa aatagagcag tttanaatat 480
caccaaggag aaggaaatac tgaaatataa atctaataaa atttatgcaa gatctctatg 540
ctgaaaagta cgaaagactc ataaaagtta tcagtgaagg cacaaataag tggaaagata 600
tattgtgttc atggactgga agatgcaata tatttaagat gtyagttmaa aaagatctac 660

ggatkcaatg caatctcaat taaaattcca taagaatttt ttatagatat ccatargcta 720
rtctcaaatt ttacatgaaa agggcaagag cccagtatag ccaaaataac tttgaaataa 780
gaataaagtt agaggactta cattgcctaa ttttaataca tactatgaat cttaactata 840
atataaccta actataacaa tcaaggcagg gtaggactgg agaaaagatg catagataga 900
taaatgagac agagcagaaa gttcagaaat aggcgtgcag aaatatgscc aattgatttt 960
tgacaatagt gtgaaggaaa ttcagtggag gaagaacaaa tttttataat aaattgtggt 1020
ggaaaaattt aacgtttgca tatatatgta tggaacttca atctatattc tttatgtgaa 1080
aaattcaaaa tgaattataa gtctaatttt aaaatatgaa actataaaga ttttaaataa 1140
aacatnagag aaaaaatatt ttatgcccttaggttaggca aagagatctt agataagaac 1200
aacacaccaa aactatgatc tataraaaag raaactgggc caggcacagt ggctcatgcc 1260
tatcataccc cgtacgttgg gatgccgagg tgggcggatt gcctgagktc aggagtttga 1320
gatcacccgg ccaacatggc gaaaccccgt ctctatgaaa aatgcaaaaa ttwgccaggc 1380
gtggtggtgg gctcctgtaa tcccagctac tcgagaggcc gaggaaggac aatcgcttga 1440
atccaggagg cagaggttgc agtgagcaga gatcgtgcca ttgcactcca gcctgggcaa 1500
cagagccaga ctccatctca aaaaaaaaaa aaaaaaaaaa actcgagggg gggcccggta 1560
cccaattcgc cg 1572

<210> 126
<211> 376
<212> DNA
<213> Homo sapiens

<400> 126
atggaaatgg agtgytgtta tamccmaacc aaaaatgtgt gcatcggctt agcagtcagg 60
tagcagatga tagtgaagct gctaccagag gctggaaagg tggcaattca tgttatgcag 120
catcaacaga tgcaataacc tggaaggaag atcttattat acctcctgag cctgtggctc 180
taagggaaat ggttggaaag agagtagggt attggaatgt gtttgcagtt attgctaaat 240
ttggctagca ttataataag tggatgagtt caagagaaaa ctgaccagct tatgaaaata 300
aagaaaaggt aatagagccc agcaatatag ggttttgaaa tgttacaaaa attaacatct 360
tctacgcccc aagggg 376

<210> 127
<211> 920
<212> DNA
<213> Homo sapiens

<400> 127
cccccgggct gcaggaattc ggcacgagct ggagtccatg cccctaggat ggggtgaggg 60
agtatcactc tgtggggttt cacagcaccc tggatcctgc cttccagccc ctgccaaggt 120
aaacagtgct gcctgcctcc tgtggggaat gcaggatggg gcaatgccct ggcagcaggg 180
tcttgcctca gctgatgcaa ctgtggctgc tcctgtgtgc acagatcatg tgcctggaag 240
ccttcctgca gcagggcagt gtcagaaagt ggaagagtgg tgtgagcagc ttccccgggg 300
aaagcctggc tgagcaactg accttgagca agcactgcag atggcccttg ttcctgccgg 360
gctcctccag ctgggagctc tcagcccctg gtaaattctg gcagtgaaag acacattagc 420
acctcccct acaatgaggc acctatctag acaacttggc tgtccgggct taacctgcgt 480
ggcagggaag gacgcctgcc cagccttagc ctctacgcaa tggtggaggc agggagggag 540
agaaccacac agctcccctc atttcccagc agcccccatg gagcctagtc aacagggtgt 600
ggtcacaggc taaatgagca aagatgtgag ctaatatact ggtaggtgtc atgggggctt 660
tcagagctgg gtaaggaggg aaagagatgg agatactggt tccccactcc ttaacgtgcc 720
acctgccttc cctgtccttt accctccctc attctgctgg acctgaggaa aatgcaaggg 780
aggctaggcc tagtggctca tgcctgtcat cccaacactt tgggagactg aggtgggaga 840
atcacttgag cctaggagtt tgagaccagc ctagggaaca tagtgagact ttcgtctcta 900
caaaaaaaaa aaaaaaaaaa 920

<210> 128
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (752)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (795)
<223> n equals a,t,g, or c

<400> 128
aattcggcac gaggttagtc tggcaaggaa agcagcaaga gaggagtgtc aggcaggtat 60
ctggacctga caccacgtgg gcacctgctt atatgtggaa ttcccctcca gatcatctct 120
gcttcctaaa tgtctccaca gctttcttgg ccatacaagg caattcccct cattccagaa 180
aagcctagtc ttcaggaata tgcaatggaa tgaaaagata taactcactg caaagaactc 240
agctggtgct tcttgccctg cgcaraktaa ctgtttcagc ctcaagcagc tgcagcttat 300
cctcttgata ccctggtgca tccaagagcc nacaggaatt gaggcctgag ataacgatag 360
cgttgaactc ttcagcgaca tttcctggaa cttcttgaga tgaagagaaa acaagaaaac 420
taactctgag ctatagcact tggccagatg ttatttatca gccctgggga tttacttaat 480
gtctagtctg taatcctggt ttagtggtct gtgtgaaaga agtcctcttc atgcaccaag 540
gatttcaatc aggctaatga ctagaaaatg acaaaaatcc tcaagctagg attcctccaa 600
gamccagtgc aaatatctcc tccaagcaaa tgtgamaacc ccactcccca ccatccctgg 660
cccatcttgc aaaaccccta acagctttgg aaagttgccc accctggcct gaatggccac 720
cctttataac acttgtccac tttgcacact tngttttaat tcccacccta tcttagaatt 780
aataaagctc ccttnagg 798

<210> 129
<211> 614
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (612)
<223> n equals a,t,g, or c

<400> 129
agggcgcggc ccgggttccc gttccccgcg gagccatgcg gtacaacgag aaggagctgc 60
aggctctgtc ccggcagccg gccgagatgg cggccgagct gggcatgagg ggccccaaga 120
agggcakcga cgaggccgag cccgtcggag ccctgctgct ggagcgctgc agagtcgtcc 180
gggaagagcc cggcaccttc tccatcagct tcattgagga ccctgagagg aagtatcact 240
ttgagtgcag cagcgaggag cagtgtcagg agtggatgga ggctctgcgt cgggccagct 300
acgagttcat gcggagaagc ctcatcttct acaggaacga aatccggaag gtgacgggca 360
aggacccccc ggaacagttc ggcatatccg aggaggccag gttccagctg agtggcttgc 420
aggcgtgagc gcagggcacg gtggtcagcg tgcagcggga cgggactggc cctgcccagc 480
catgaatcgc ttggccatgc ctggatctgt tttgttttgg tttttggttt ttgggtcagg 540
gtttcactgt gttgcccagg ctagagtgca gtggtgccac agctcactgt gaccttgacc 600
ttctggactc antt 614

<210> 130
<211> 994
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (381)
<223> n equals a,t,g, or c

<400> 130
gccggagcag aggccgcgcg gcagtgctgg catgtgggtg ggcggtggta aggaaggcgg 60
tggatgagga tgcagggagc agatgggctg cgttgcaggc tgggccccta tggccctcaa 120
taggttttgt ggtcaacatg ctttgtggag ttacaacaag caatggtggc cctaacacat 180
atattcattt ataggtccat aaatctgcat tcatagagat aaatgagtaa tccccagggt 240
gaaggagaac tggaagagac actggagcca ggtccaccct tggccaggtt tnaccttgac 300
tcggcgtcat cactaggcac tggtttttt ctctctcctt cttccctgac caagaaatac 360
aacaaattcg ttatgatatc nacttgtcat gatccgaaat tgaagagcaa ccatatattt 420
atttggcaag ataaatacac acattcttta cataagatta gtagccacca gtttctaaaa 480
gcatatattg tcatttattt gccaaaacaa aatacatgcc cacatgttat agatgggaaa 540
gatgaggccc agagctcggg tgcatggctg aggtcaccca attagtggat ggtggtgctg 600
gcacttctgt ctgggctgct tcaccttgtc acacactctc cactccatgc aggccgcacc 660
tctctggggc ctagcagggt ttatcaccca gcttagtatc actagtaccc agcacactca 720
ctctgtgaaa gacactgcac cgtgatctgt agggtctaaa gctaggggtc catgtcacat 780
acagaatggc acttttcaca gaaagagagg acagatgctg catggctggt ctcagtgttc 840
attctgaacc cccacactcc ggcgtgagta ccaaatggtc atgagcattg atggagcaca 900
cagtgtaccc tgagttctaa agacgcagga ctgtgtctga gctgccataa cagaatacca 960
tatcaggtag ctgacaaaaa aaaaaaaaaa taaa 994

<210> 131
<211> 750
<212> DNA
<213> Homo sapiens

<400> 131
tcagagttgt tgctttacag aagtgaaaaa agtattgaca tttctaagcc cagaactatt 60
ttttaacaag ctagaaaata taggaaaaaa aaaaaacggg tagaacatgt ttctcaagag 120
aatgcagtgt agctagaatg tacactattt ttttcccagc atgtatttgg gtaaaatatg 180
tgcactgaaa tttcaggcca aatcctaatg cagaaataat cccaaatatg gagatttata 240
agctaggcaa tttttattta tttgctaatg tagattccct taagagctca aatgttctac 300
tttttactct tggcttctcc ttgaaaagac ttacctgtaa ggtctcagca gcgtaaaact 360
ccaagctgca aaatcgtctg aattcagcat ttgccataat ctcctttgcc catcaactca 420
ggttggtttg gaattgactt gccactgtac ctgtttggta attawaawtc acaattaaat 480
ggcagtacaa ataaaycagc atgtctgcag gcttggagcc tccactctct gtgttatctt 540
ccttttattt gaggatctga aagaaaatta gaaagaaagg tttgagtatc taaagtcttc 600
cattcaaagc tttacctccc ttagttttgg gacttctttt caatctgttt tggatctttc 660
tttcaaagag aaattaagca tgtaccattg tcagcctgtg tgatttacac tgaggagtag 720
agatgtgtgt gattccctcg tgccgaattc 750

<210> 132
<211> 537
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (511)
<223> n equals a,t,g, or c

<400> 132
agctgaaagg tgggggaagg gaacgtagac ctagagaggg gaattcttac agaaatcctc 60
ttttttggt ccctttctatt tttcagtctc cggcagcctc ttggtcatga aagccctcag 120
attgtcggct tccgccctct tctgccttct gctgatcaac gggttagggg cagcaccccc 180
tggtcgccct gaggcgcagc tcctcctctc agctctgagc ataaagagcc ggtagccggg 240
gacgcagtgc ccgggccaaa ggatggcagc gccccagagg tccgaggcgc tcggaattcc 300
gagccgcagg acgagggaga gcttttccag ggcgtggatc cccgggcgct ggccgcggtg 360
ctgctgcagg cactcgaccg tcccgcctca cccccggcac caagcggctc ccagcagggg 420
ccggaggaag aagcagctga agctctgctg accgagaccg tgcgcagcca gacccacagc 480
ctcccggcgc cggagagccc ggagcccgcg ngttccgcct cgccctcaga actccgg 537

<210> 133
<211> 701

<212> DNA
<213> Homo sapiens

<400> 133
aattcggcac gagatgagaa ccactgcctt gtgacctcca gtagaatgag gccccagtgt 60
tgactgcact ggaagagtcc aggagcttgt taaaagtgca gatagactga ttccacccca 120
gaatggacac cgagaaatct tggatcccaa gagtttggtt ggctttatca tgccccttag 180
tcatttctga gtggttcctc atactctgca tccatgtgat gagaggcaaa tttcctcatg 240
atctgctttg cttcctcatc aagctactat gccccaccat tgctggctct gcttatggtt 300
gctgcaatgt aggcagcgct gtttcttgtt cttaccactt ttaactatct taaaatagaa 360
cctgactctg attctccatt aagaagtgga aactggctgg gtgtcgtggc tcatgtctgt 420
aatcccggca ctttggcctc ctatctgagg ctaaagcagg gggatcacta gaggccagga 480
gtttgagact agcctgggca acatagtgag accctgtctc tatcaaaaat ttaaaaagtt 540
agctgggcgt ggtggtgcac acctgtcctc tgagctctca gctacttggg aggctggggc 600
aggaggaccg cttgagctgt gatcatgcca ctgcagtcca gcttgagtga cagcacaaga 660
ccctgtcaca aaaaaaaaaa aaaaaaaaaa aaaaaactcg a 701

<210> 134
<211> 866
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (847)
<223> n equals a,t,g, or c

<400> 134
cgaattgggt gccgggcccn ccctcgagtt ttttttttt ttttttaaat gaacagagat 60
ggtgagttct ttatttacaa ttattgtcta gataaaaaaa ttcataaaaa cagatgaatg 120
gtcataaatt atttaccccc taatggagtg aactgccaaa cgtaccccat gctgctagat 180
ataggacgca gagtgcaagc tttatgtact acagtgagtt ttgacaaacc aaccatttcg 240
tgtgtgtgtg tgtgtatgtg tgcaagtgtg agagtgaggg ggtgcatgtg tgcaagcatc 300
cttcattcct gacaagagaa gaccaacgct aatgttgggc attcttccat cgctccctgt 360
tccctaagcc agggntccac tgaggaaccc ctcctggctc craatgaaca tgggagcatg 420
ggtgtgcaaa cacagctatc ctgatgtcat ggaacgaggt cacggacaca tgactgatca 480
aagaagtggg gagatggaaa actgtgagaa aggaaactcc aaaaaacacc atgttccaag 540
gctgccccat gttttacacg tgcagatctt tccttccttg taggagagca gtgggctggc 600
tttggtggcg tttgtactgg aatccaataa gcacatctga gggctggtca ccccttggt 660
tatgcagttc ctctcctgga tacattcaga gatacttctt caygacattc aggtgatgcg 720
ctcttgaagg tcctccttcc aggaggattt tgccaggtgg gatgggctga ctttgaaccc 780
caaaccctca agtttttcca ccgccatcca gatgtaggcc ctcccagttg actwtggtat 840
tggggcncga tggtctaaga ttgttt 866

<210> 135
<211> 674
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (504)
<223> n equals a,t,g, or c

<400> 135
gaattcggca cgagggcact cagagcccaa tgaggaagaa agacacatga ctggctggca 60
aagccctatt gtgaggggca cggagggaag gggcgggagg accccgggtc ggctgctggg 120
tggcctcgtg gtacagagac ctaaggggtg ggaaggaggc cctcagggag gagcagaggc 180
tctgtaccga caggtgggct ggcccctcat ccacccatgt cctctcctgg agcctcagtc 240
tgtccatctg tcaaatgggc agagggacag caccatctca tggagctgtc gtcggggctg 300
caggctgtga atctgaaggc ttggcacatg ggaggtcctc acgaggatga sattcttcgc 360
tgtgttgtcg agttttccca gcagagggaa gcgtgcagar gcgcagcaga gcctggtgtg 420
ctggaggaac agacgtgtgg tcgggggggct ggaggcacgg gctgtgaagt gaggtagggg 480
ttgagggtca ggttttgctg gganagcctt gacttctgtc tcacagcgga aaaccagagt 540
ccttcaagca gggagtgact ggagtcccaa tttggtttyt caattatcag ggaggagggt 600
gagctytagg ggttgccagg gagatggggg tytaccgtgg tgggtgcagg gcttgctgga 660
actgttytgg aggt 674

<210> 136
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> n equals a,t,g, or c

<400> 136
atgtgagttt agctcaactc aattaggcca ccccaaggct ttnacacttt atgcttccgg 60
ctcgtatgtt gtgtggaaat tgtgaacgga taacaatttc acacaggaaa cagctatgac 120
catgattacg ccaagctcga aattaaccct cactaaaggg aacaaaagct ggagctccac 180
cgcggtggcg gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgagt 240
caccacgtgc tgagtgctgt gcatggcgct gtgtgtcttc aatgaacagc cggcgaatgc 300
aggaagaagg cgaggaacac tgaystwcat ggtgggcgga gaaggagcac ccaaatgggg 360
atgtgtcacc tgtgtgtcca tgtcggtcta ctggtttctc tgtttccatc tcaggctgca 420
ggcttcgtgt ggatgaggat ggcacctttc ctgttcactg acagatactc agtgcctagc 480
acagtgcctg ggacacagga ggtgctcga 509

<210> 137
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (436)
<223> n equals a,t,g, or c

<400> 137
gaattcggca cgaggcagga ggtaattagg aggtgttggt taccagggag ggaggctgga 60
ggtgtccagg gttatggccc tttggaggtt gggcaggtaa gacggatggg gagaggaggg 120
aaggagggag gagaactcaa tggcttgggt gcgaaccact tgtggaggga tggggagggg 180

cagatttgag gacaggctgg ggactgggca ttcttgtttt ggatgtggct ggcgggggct 240
gctcttggct ccccggcatg aaccagtctg tggtctggcc cagctcctcc caccctctca 300
tgtactgtag ccttgtcctc cagccagacc cttgccccgg cttttcaggc atcccagctc 360
agctttttac gggatgggct ggagctgttc tcagcacagg tctcgggcct cccnagggcc 420
tgctggagca aacnnnc 437

<210> 138
<211> 596
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (297)
<223> n equals a,t,g, or c

<400> 138
tggaggtgga gtcctggaca ctttcggctc tggcagctgt gtcttgatct gagccccaag 60
catgaactgg aggctctgca gcccttggga gatgggggct cagggaggac cccctgaaga 120
acccctcttc tatgtggctt tggtggtatt ccacggctgg tgctcaggaa gcccctatca 180
agaagaagcg ccccccctgtg aaggaggagg acctgaaggg ggcccgagga aacctgacca 240
agaaccagga aatcaagtcc aagacctacc aggtcatgcg agagtgtgag caagctngct 300
cggccgcccc gtcggtgttc agccgcaccc gcacaggtac cgagactgtc tttgagaagc 360
ccaaagccgg acccaccaag agtgtcttcg gctgagaagt gtgcgccact ccccttgctg 420
cccgaatgct cggaaacagg agccttaccc aggaactctt ttttatgcca gaacgcttcc 480
tctcccctgc tgtctctggg gctgccaccc tcccccacag tccaggccct tcagccaagg 540
ctctgcacca gcaccttgga agcaccaata aagaggatgc ccacgtggcc ccagca 596

<210> 139
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (378)
<223> n equals a,t,g, or c

<400> 139
ctttctgggt ttagggaagt ggtggacaag gcaggagaga accacattca tcttctcctc 60
ttgtgtttgt cttctgtctt tcaataacgt ccatgaactg tgaggttagt gtcttggctg 120
agagataagt awggctkggc atkgattctt ytgtkgtwac ctcaagctgt tttctagtcc 180
ccaagaacag caytytcagt gggtgtggaa gtgggcggga catgaagcaa tggttttaca 240
ttgcattgcc tggctacags ttggcatttc tttccttttt ctttttcttt gcgtcattgc 300
cattggtgcc actaattttg cttcccctyt cttttataaa cttgtttcct cnggagttgc 360
ctaagagtcc tgcatnanaa cctaattggg aatgaagcag tgtgttc 407

<210> 140
<211> 377
<212> DNA
<213> Homo sapiens

<400> 140

tttttttttg gaaaacaaaa gaaccagcca ttttawtcca agacctatgt tctggggcag 60
caggaataaa taaggaaggg aggggacggg ggcagggcag gtaggttcta cgtcttgcag 120
cacatcccac actttgatcg atgacagcag ccgcagcaga aaatgcagat ggggaagtgg 180
gtgtctcgcc tccttcgcct ctggaacatg ggcatccagc tggccctggc tccagctctg 240
tcctggggtt gcagctctgc aagttgtccc gtctgttgtg ggaaaacaga gccactggtc 300
aggctggcga ggaggaggag gagcaggagg caagcggccc agatctggga gctcagtgcc 360
atcgtgccgt ctgtctg 377

<210> 141
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (330)
<223> n equals a,t,g, or c

<400> 141
atttagaata atgccctaaa cttgtaatgt gagcaggtct tcagagtttc gagctgaagt 60
tacaggttta gagttgtccg ttggaggttt ttgtttcttc gtttaatgat ttaaaaacag 120
gttatgatac aagatcttca aaatggtttt accacatgca tcatgactta gaatcttcgt 180
tggctctttt ggtttttttc attcaaagtt gaaatgcctc acctcttctt tctttttctc 240
tctactaacc attttctact gagcacaccg taccttatca gtctcataac tgggccacct 300
aactctsccc taagacagca ctaggagttn gacaccccag araatctgta agtcatgtac 360
tgctcatcta acgaacagtc cctgctagcc ttgcctgctt cttttgca 408

<210> 142
<211> 1249
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1214)
<223> n equals a,t,g, or c

<400> 142
ttttttaaa atactcatgc aattttattt ctagttgata caattttaaa ggccatgtac 60
aaatgttata cattttttatt tttgttcttt ttttaggaaa aaatacacaa aaggcaaaac 120
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caaatgctgc actctagcag ccaaaatata aaaaaaaaaa ggagggtagt ccttcatatt 240
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aaatttacaa tggatatcta aaaaaaattc tacacggcaa atattgccaa caaagttaca 360
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ccgcaatcct gaatccgcgc ggtcaccggg ccgtcctagt ccctgcgtcg cgctgtgttc 540
ggctcgttct cggaccagaa agtttacagt agaggttgga agacagaaaa atacccactg 600
aaaaagtcta aataaaattc aagacaaaac ataacagaag aggctgaagc gaaggaagag 660
gaggaacatg gaaggggacg gcagrcggac gcccggacgg ccgcttgctt cgtggctcct 720
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atggctgcag tcagatcaga cccaccacta acatttctta acaattttga gggagtgagg 1200
aaggaggtgc caancgcagc gctgtgtctt tgcattgggg actccttgc 1249

<210> 143
<211> 313
<212> DNA

<213> Homo sapiens

<400> 143
tcggcacgag ggatggggtc tttgagtgga catgcctatt cctgtttgtt agttttcctt 60
ctgacagtca gccccctctg ctgccagtat actggtgttt gctggaggtt cactcctgac 120
cccgtttgcc tgggtatcac tagtggaggc tgcagaacag caaagattgc tgcctcttgt 180
ttcctctgga agctttgtcc cagaggggca cctgccagat gccagccaga gctctcctgt 240
aggaggtgtc tgtcagcctc tactgggaga tgtctcccag tcaggataca taggggtcag 300
ggacccactc gag 313

<210> 144
<211> 378
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (359)
<223> n equals a,t,g, or c

<400> 144
gacatttttg actgcttatc aatatgtgtc ttttttttatg gtttctttat aaaagttcca 60
acacctctat ctttctctta ttgcttatct tacaaaatgt ggaacaattt gcagaatatt 120
aatatcatgt cttaagtatt gccttaaatg gtttgtggga tattacttga tattcacctt 180
cttggataga taagattcat cattggcagc aaataattaa aggtaaaaaa aaaatgccta 240
agattaacaa ttttctaaat ttaaagaata gaaaaaaggc caggtgtggt ggttcacgcc 300
tataatccca gaactttggg gaggccgagg agggtgggat ccccggagcn cangggttnc 360
cagaccaccc agggcaac 378

<210> 145
<211> 1548
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1538)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1542)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1545)
<223> n equals a,t,g, or c

<400> 145
aagggccgnc tggacatgga cggcctggag gtggtggacc tggaggacgg gaaggacaga 60
gacctccatg tgagcatcaa gaacgccttc cggctgcacc gtggcgccac aggggacagc 120
cacctgctgt gcaccaggaa gcctgagcag aagcagcgct ggctcaaggc ctttgccagg 180
gagagggagc aggtgcagct ggascaggag acaggcttct ccatcactga actgcagagg 240
aagcaggcca tgctgaatgc cagcaagcag caggtcacag ggaagcccaa agctgttggc 300
cggccctgct acctgacgcg ccagaagcac ccagccctgc ccagcaaccg gccccagcag 360
caggtcctgg tgctggcgga gccagggcgc aagcatncta ccttctggca cagcatcagc 420
cggctggcac ccttccgcaa gtgaactggt ccctgcctga cagcacctgc tgggccttcc 480
tgccagtggc ccccagtttt tcttccccga ggcccactcg gcctggcctt cctctgcctg 540
caagtragca gggatgggct ggggagttgc ttgtgccacc aagacgtgcc aggtctgtac 600
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gcactcgcca caccgccgct gcagcttggg ccatccgccc tctggacctg tgtagggcct 720
cactgctgga gcggggaaac scagctcagc ccaggccmag ctggggagaa ggcgctamct 780
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caaacaatgg agaaaaagaa ttgattctta gtgacacaga agattgcctt acgctcgtga 1260
gcgtgagaag ccataagaga gagaccgaat tctgtggctc agcacacagg actgacccac 1320
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agccagggcc tggcgagctg gcgtggagcc cacaggattc agcagcatgg acagtcactc 1440
ttgcactatt ccttctccaa gccagaaacc acatttaatt tcataaataa atttatgaaa 1500
agtaaaaaaa aaaaaaaaaa gggcggccgc tctagagnaa cnagngaa 1548

<210> 146
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (31)
<223> n equals a,t,g, or c

<400> 146
gngtggngat cttgagtaat gtttacagga nacagctatg accatgatta cgccaagctc 60
gaaattaacc ctcactaaag ggaacaaaag ctggagctcc accgcggtgg cggccgctct 120
agaactagtg gatcccccgg gctgcaggaa ttcggcacga gatgcatatc tcaatacctt 180
gaacgtgtat catttctttg tgttaggaac attccaaatt ttctcttcta gctatttttc 240
aaatatataa cacattattg ttaactatgg tcaccctact gtgctatcaa acactagaat 300
gtatttcttc tatctaactg tatttttctg ttcattactc ccccagaccc cagcttctgg 360
taccatttca ttctttacct cctcga 386

<210> 147
<211> 452

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (445)
<223> n equals a,t,g, or c

<400> 147
gaagaaagga agcaagcaag caagcaagga cttgggtaaa ttatatgggg ctgaactaag 60
tgtattattc tgctctggct gccataacaa aatacaattg aaattaattt tctcacagtc 120
tggagactgg aagtctaaga tcaaggtgcc agtagggttg atgtctgatg agagctctcc 180
cctcgggctg ccttcccact ctgtgttctt gtggcctttc cttggtgcat gggcatgggg 240
gagagatagt gcaaactctt tggtgtctct tcttataatg atatgaattc tgttggatca 300
ggaactcact cttatgacat catttaactt cgattacttc ctttgaggcc tcatctccaa 360
atacaagcac actgagggat gagcaacact ccaactcaaa aaaaaaaaaa aaaagaaaaa 420
aagaaaaaaa actcgaaggg ggggncccgg ta 452

<210> 148
<211> 925
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> n equals a,t,g, or c

<400> 148
ttcctgaaga gcaaggcagg tgcactccca actggcagcc ccactgtgna aattctaaat 60
attctgcttt cagtctcagg ttgtcttctt tcttgctatc gtggtagcaa ctgtytgcat 120
cctcttcaga acatgggagc ccccaagcta tggatctttt cccatagaaa aacaaggctg 180
ggggcggtgg ctccgaccta taatcccagc actttgggag gctgaggcga gctgatcacc 240
tgaggtcagg agttcaagac cagcccggcc aacatggtga aaccccatct ctactcaaaa 300
tacaaaaatt agccaggcgt gatggcacat gcctgtgatc ccagctactc gggaggctga 360
ggcaggagaa tcacttgacc ctgggaggtg aaggttgcag tgagctgaga tcgtgccatt 420
gcactcctgc ctgggcagca gagagagact ctgtctcaat taaaaaaaaa aaaaaggaaa 480
aacagctgtc agaaccttca tttgtagtga agtgaaaata agaccgtcaa atccttaatg 540
tgtttccttt gctacaaatt ctgcaattta atggagatca aagctttaaa ggatctcaaa 600
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gggtgaggca ggaggatcgc ttgcgtttag gagtttgaga ccagcctggg caacatagtg 900
agaccccatc gctataaaaa aaaaa 925

<210> 149
<211> 1753
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1746)
<223> n equals a,t,g, or c

<400> 149
tccacccaga cccactctgg atcccattca aagaggtggc agtgaccctc atttaccaac 60
tggcagaggg ccccgaagtg atctgtgccc agatattgca gggctgtgca aaacaggccc 120

tggagaagnt agaagagaag agaaccagtc aggaggaccc gaagagtccc ccgcaatgct 180
ccccactttc ctgttgatga acctgctgtc cctggctggg gatgtggctc tgcagcagct 240
ggtccacttg gagcaggcag tgagtggaga gctctgccgg cgccgagttc tccgggaaga 300
acaggagcac aagaccaaag atcccaagga gaagaatacg agctctgaga ccaccatgga 360
ggaggagctg gggctggttg gggcaacagc agatgacaca gaggcagaac taatccgtgg 420
catctgcgag atggaactgt tggatggcaa acagacactg gctgcctttg ttccactctt 480
gcttaaagtc tgtaacaacc caggcctcta tagcaaccca gacctctctg cagctgcttc 540
acttgccctt ggcaagttct gcatgatcag tgccactttc tgcgactccc agcttcgtct 600
tctgttcacc atgctggaaa agtctccact tcccattgtc cggtctaacc tcatggttgc 660
cactggggat ctggccatcc gctttcccaa tctggtggac ccctggactc ctcatctgta 720
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atgacagaag acgagacacc caagaaaaca actcccattc tcagagcatc ggctcgcagg 1620
cacagatcct aggaagtctg ttcctgtcct ccctgtgcag ggtatcctgt agggtgacct 1680
ggaattcgaa ttctgtttcc cttgtaaaat atttgtctgt ctctttttaa aaaaaaaaaa 1740
aaggcngggc act 1753

<210> 150
<211> 206
<212> DNA
<213> Homo sapiens

<400> 150
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ctattgctaa tgctagagac ttgwcacaca catttccaac aatgaaactg gaaaactatt 120
tatttgaaag cctttcttta attatagttg tttggtctct aagtaatagt tctgaggttt 180
gcagaaaagt aaaacaaata gtagga 206

<210> 151
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (230)
<223> n equals a,t,g, or c

<400> 151
ctgtggcctc aacatatatc tctgtaagag tcccctgggc ctaccataaa aaaaggaccc 60
caaactgggg gacttgaagc agcagaaata agattctctg cttgttgagg aggccagaag 120
gctggaagga aggggtccct ggggttgatt gcttctggaa actatgatgg catattcatt 180
tcatgccttt ctctttttttt ttttttttttt ttggggaggg gggaaanatn ccccc 235

<210> 152
<211> 1921

<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1906)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1907)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1912)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1921)
<223> n equals a,t,g, or c

<400> 152
gcgacgcgaa ggttgtcggg atccgcggca gcagcggctg cttgagatct gtttctgggg 60
cctctggcgg tggcggcctg gggcggcgcg acggctggtg cgcaggtaca ctgatgctga 120
agtactatga gccttcggaa cttgtggaga gactacaaag ttttggttgt tatggtccct 180
ttagttgggc tcatacattt ggggtggtac agaatcaaaa gcagccctgt tttccaaata 240
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caaatccagg ggaagtagca ggcttgcaat cttcaggtaa agaagcagct ttgaatctga 360
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taaatatttg gaattactaa tttgtcatta aatcattcta tgctgattag cttcataaac 600
attgaacttt ttgattttat agccacaatg ctgcatattc atactttaat tcctaaagaa 660
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gtgtgcactg caaaatttgg ctccaaacat ttttttcatc twattcctaa traagcaaca 1860
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n 1921

<210> 153
<211> 2273
<212> DNA
<213> Homo sapiens

<220>
<221> SITE

<222> (146)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1087)
<223> n equals a,t,g, or c

<400> 153
agctgactga agccttcaaa tacttcctgc agtcatggga tacattgcgt acttgaagga 60
ccgaagctga gtggaggagc agtgccctca gccagcatga cccgcctggc acgctcccgc 120
actgcatccc tcaccagtgc cagctncggt ggatggcagc cgcccacagg cctgcaccca 180
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cccttgatcc cgctgacgac gcccacgtcg aggccccacc gccatccttg cgccggctca 300
tgttcccttt agtttatttt tgtgagggca aaggggagga aatggggttc tgtttgaaaa 360
aaatgagggg atcttagatg ctgcagcaga acagtctcca ggtgttttaa ggggctcagt 420
cctcctcatc ccatctcact ctccgtggta acttagccaa cttgacccct ctcatcccac 480
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ggycattcct gggtgagccc ttgggcaggg catgtttgga gatgagagag gcttcgagag 600
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gttgagggtg ctaggagagg atggtctcca cccatctttc tatttccagt acacgtcaca 2220
ttattttacc ggtgagatga gaatgtcaca aacattaaaa gccttatgtg ctc 2273

<210> 154
<211> 1063
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (962)
<223> n equals a,t,g, or c

<400> 154
ggtcgaccca cgcgtccggc agtgaacact ctttgctaaa tttctgactg aatccaagat 60

ttttccttag aatagattct taaaagtggg ggccaggtgc ggtggctcac acctataatc 120
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ggccaacatg gtgaaacccc gtctctacta aaaatacaaa aattagccag gtgtgtgggg 240
cgtgcgcctg tagtcccagc tacttgggag gctgaggcag gagaatcgct tgagcctggg 300
aagcagaggt tgcatgggcc gggatcacgc cactgcactc cagcctgggt gacagcaaga 360
ctccatctaa gaaaacaaaa aaaaaaagta cgattggtgc gccagagtga acacaaaatg 420
taaagacttg tgtatttgtg agancctttt gaagcatgct atctccccag ctamaccctc 480
ttcaggtgcc cctttcctgc tcctcctgct tttcaaactg tggctcgtgg ttccaggctc 540
aagcacggac atcagtragg actgggagaa agactttrac ttggacatga ctgaagagga 600
ggtgcagatg gcactttcca aagtggatgc ctccggggag gtgagtgggc ctggtgggtc 660
agagggaagc gagcctaatg gtcctgggtg tgagagctct ccccagccag cccagctgtc 720
ccctcaggag ggtccctgct cctgtytgag gtgacaggtg gtgggaaagg agctggagct 780
tcctgctcag acccacaaca ttggtcatca gcaggytgca cttttcctca gttccagggt 840
ggatagaggg tcaagttctt gaccttagct ctgtatcaaa attgcctgag aaactgctta 900
agaaaacaga tgtcatgctg agcacggtgg ctcacacctg taatcccaac actttgggag 960
gnccaaggtg ggaggattgc ttgaggcgag gagttcaaga ccagcctggc caatatagtg 1020
agaccccatt tctgtttttg aaaaaaaaaa aaaaagggcg gcc 1063

<210> 155
<211> 500
<212> DNA
<213> Homo sapiens

<400> 155
caggcaaagc tcaggcagct ggaggccctg ctgagctccc tgcccccacc ccaaagccag 60
aaggaggccc aagttgcagc ccgggtttgg agggagtttg agatgaagcg aatggatcct 120
ggcttcctgg acaagcaggc tcgctgccac tacctgaagg gtaaactgag gcatctcaag 180
actcagatcc agaaattcga tgaccaagga gacagcgagg gctccgtgta cttctaagtg 240
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ctcagctttt cctcttgcag ctccccctac caggggtcgc tttctcctgg attgcaaatg 360
cctcttcagt ttggactcag ctctgacagc ccctcctcca ggaaggcctt ccaggacttc 420
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aagtagggcc tgctctccat 500

<210> 156
<211> 882
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (635)
<223> n equals a,t,g, or c

<400> 156
gaattccaga gaagaaatac ccgcagccca aagggcagaa gaagaagaag atcgtcaagt 60
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tcatgtcgct ggtgcgctcc gtggttgggg ttgtcaacca gcccatcgat gtcaccgtca 180
ccctcaagct gggcggctat gagccgctgt tcaccatgag cgcccagcag ccgtccatca 240
tccccttcac ggcccaggcc tatgaggagc tgtcccggca gtttgacccc cagccgctgg 300
ccatgcagtt catcagccag tacagccctg aggacatcgt cacggcgcag attgagggca 360
gctccggggc gctgtggcgc atcagtcccc ccagccgtgc ccagatgaag cgggastcta 420
caacggcacg gccgacatca ccctgcgctt cacctggaac ttccagaggg acctggcgaa 480
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gcacggcggc agtggccagc ctgctcgagg gcacctcgga ccagtctgtg gtcatcccca 600
atctcttccc caagtacatc cgtgccccca acggncccga agccaaccct gtgaagcagc 660
tgcagcccaa tgaggaggcc gactacctcg gcgtgcgtat ccagctgygg agggagcagg 720
gtgcgggggc caccggcttt cctcgaatgg tgggtcatcg agctgcagga gtgccggacc 780
gactgcaacc ttgttgccca tggtcatttt aagtgaacaa ggtcagccca ccgagcctcg 840
gmttcctggc tgrctamggg tgagtgagtg gctgggggggg ca 882

<210> 157
<211> 1278

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<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1035)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1243)
<223> n equals a,t,g, or c

<400> 157
ggcacgaggg ataatggagg ctactataaa aattgaatga gaaagtcagt gagatgcact 60
gtttaatttc ctttctggct ctttcactgt ttctttttgt tttgtttntt ccctttтcct 120
tgccaataaa aaatatttgt tgagtaactc asgcctactg tacaaagtaa caattctctc 180
ctccctttcc atcttcttcc tctccagtyc tacttctgar aaagtaatcc ttaataacag 240
tttggtgtgt atccaaaaaa gctttttttgt agcattattc tccaaagtgt ttgaagcatt 300
tcttctgata aagtttcttt agtctttagc cagaactagt ctttggccca cttagtctat 360
tgataaacag gaaatagcac atattccccc cttgaggsta gaatggcagg cctaaaatga 420
gtaggagaat tctgagaaat ggaaacttta aaaaggcggc aaccttctag tttcattctc 480
agaaatacca aagcagcatt tttcctggac ttgttctgca gakcgctcag atttgaaagc 540
catttctagc ctttgaggat taccactgtc ctcagccaaa ctgcagggac tcctaagtag 600
atcagagctc ctggaacttt ctcatctttt cagcatctca accctgtgga atcttttaac 660
tcccaaggta agtacagatt gtccagagag atctaagcca tgcttattca atggaatgga 720
gagtctctca aagagacctc ataactctaa gatgaaaatc tcctctgtgg ctacagactt 780
ttccagatat acccacttta ggcaagagag gatgaagtag acactttagg tctacacttt 840
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gctgaggcca gggatgtagg actcaagccc agaggaacct ggctgggctg agagaaagag 960
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cgcccaggct gtcgtgcagt ggtgcgatca caactcactg cagcttcgac cttccagggc 1140
tcaaaggatc ctcctgcttc agcctttgaa agtgcgggga ctacaggcac tgagcgtgag 1200
ggtgcctggc taatttтttt cgtttctgta gagaggaagt ctngctagat tgaccagtct 1260
agtgggcaat cctgcaaa 1278

<210> 158
<211> 325
<212> DNA
<213> Homo sapiens

<400> 158
aattcggcac gagaattagt tcatttccaa tcccagaaca catggaggga atcggacagg 60
tgatgccagc agttcctgct cctctgtcag ggaagccagg cagagcccac agagcatggt 120
ccatccagag tgttccctga gccccctcca ccatactgga acccctcttc agtgtaggaa 180
gtctgaaatg ggtgctaatt cccttcttca tgaaaccagg gccctcttcc ttcatctaat 240
gcagccactc ctaggtgaag aagtgggaat aattggaaat aaacaacagt tctaaaactt 300
caaaaaaaaa aaaaaaaaaa aaaaa 325

<210> 159
<211> 918
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (492)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (776)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (861)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (903)
<223> n equals a,t,g, or c

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<400> 159
tngaaaaaaa tccggctcgt atgttgtgtg gaattgtgag cggataacaa tttcacacag 60
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tatgcatcaa gcttggtacc gagctcggat ccactagtaa cggccgccag tgtgctggaa 180
ttcggcttgc caccaacgag ttcatcctsa gcctgacagc caagctggat gagaatgaat 240
ggggctctgt gaggcatctt gcagctccct cgacaatgct ctgcccgtac actctgttct 300
cgtggtttct gtctcctctt ctgtgtttac agggttgggc agctgctaca gcccttgcct 360
cttccctgag tgcctcagag tgacagagat gaagaagcca cttggctcta ggaagtgtgg 420
cctggctttg atatggtttg gctttgtgtc cccacctaaa tctcatctgg gaattgtaat 480
cccccatgtg tnagacggaa ggaggtgatt ggatcatgga ggcaktttcc cccaagctgt 540
tctcatgata gtgagtgagt tctcacgaga tctgatggtt ttataagtgt atggaaagct 600
cctcctttac tcactcttct ctctcttgct gccttgtgaa gaaggtgact gcttcccctt 660
ctgccatgat tatgagtttc ctgaggcctc ccctgccatg cggaactgta agtccattaa 720
agctcctttg tttataaatt acccagtytc aggtatttct ttatagcagt gtaagnatga 780
actaatacag tgtgagaact aatacaggca caggatgaac acgttggtga caagccgaat 840
tctgcagata tccatcacac nggcggccgc tcgagcatgc atctagaggg cccaattcgc 900
canatggtga tcgtatta 918

<210> 160
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (313)
<223> n equals a,t,g, or c

<400> 160
gaattcggca cgagctcaac ctcaggaagt cagtccctgg gagccatgaa gtgcagcaat 60
gacaggccca tctggagaag acatgacggc tgggtctgca ggacysagmt arctcaggag 120
cagatttggg gatggcaatc agatgctgtt cttctacctc aaatgccttg atccttattc 180
tcttcamctg gacagttctt ctttcatcat ccmagatcca gytccttcct gcccttcttt 240
aagagggctt tcatggacct tttccctggg gttattgcca tcataggcca ttccatggaa 300
ttttttttta aanggcattt 320

<210> 161
<211> 1339
<212> DNA
<213> Homo sapiens

<220>
<221> SITE

<222> (151)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (385)
<223> n equals a,t,g, or c

<400> 161
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aggactccat caactttytg gatcacatta atggaaagaa acatcagaga aacctgggca 120
tgtctatgcg tgtggaacgt tccaccctgg natcaggtga agaaacgttt tgaggtcaac 180
aagaagaaga tggaagagaa gcagaaggat tatgaatttt gaaggaaagg atgaaggagc 240
tcagagaaga ggaggaaaag gccaaagcgt acaagaaaga gaaacagaag gagaagaaaa 300
ggagggctga ggaggacttg acatttragg aggacgatga gatggcagct gtgaatgggc 360
ttctytggct ttggttccac caagnaagag ttactgaggc tttctgtgct tggcctgact 420
ttggcctatg ctggacctaa ctttgcgtgt gtgtgtgtgt agtagggggt catttctttt 480
tgggtaatgg gaaagttctt aagagtgtca atggggaggg atagagggtg ggggctcatg 540
gtttccctct actttgggag agggcacaga ttgcagaggt aatgctgtgg catattgctt 600
ctgcctcagt gtatcactgg agtcacagga ccctgcccac ctgagttccc aataaagaaa 660
aacctcccct tctgaggctg ctttcccaaa actccccctg catctttatc tcttcatcta 720
tcccacctct tgtctgaaca tcccaccttt atcctgtgtt ctgcctttgt tttaatttta 780
actcatgttc atcctgcaac agaagcattc tctaggtccc agtttccagt tgattgcata 840
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cagagcatgt aacaggaaat taaatgggat gagtgtttgg tgtggtttgt gtctgatgag 1080
ttttttaaca ttcaggtgta gattgtttca gcttctcttg tttcattttc ctgaagattt 1140
atgtttttgt ctaccttgtg agcaggcttt tggaagaacc tgtttgatgc aaaaaagaaa 1200
atgaaaaaca aaacaaaaaa tccccaaaac cttattatgg gagcctcgg tcttagaagc 1260
tgtttgacat gtataataaa tggcattgac tgggcctgtt ttacatttgg tgagaacatt 1320
caaaaaaaaa aaaaaaaaa 1339

<210> 162
<211> 562
<212> DNA
<213> Homo sapiens

<400> 162
gaattcccgg gtygacccac gcgtccgccc acgcgtccgg tctcgaamtc ctgacctcag 60
gtgatccgcc cacctcggcc tcccaaagtg ttgggattac aggcatgaga caccgcgccc 120
ggcgtttttt ttttttttt tttctttcag gaatttgggc tgggcatggt ggctcatgcc 180
tgtgatccca gagctttggg aagccgaggc aggaggattg cttgagccca ccagttcaag 240
accagcctgg gcmacatagt gagacactgt atctacaaaa aattaaaaaa ttagccaggc 300
ggctggacaa ggtggctcac gcctgtaatt ctagcacttt gggaggccaa ggtgggcaga 360
tcacctgaga tcgaragttc aaraccagcc tgamcaacat graraaaccc tgtctctact 420
aaaaatacaa aattarctgg gcgtggtggc gcatgcctgt aatcccagct acttgggagg 480
ctgaggcagg agaatcactt gaacccggga tgcagaagtt gcggtgagcc aagatcatgc 540
cgttgcactc cagcttgggt aa 562

<210> 163
<211> 352
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (347)
<223> n equals a,t,g, or c

<400> 163
ttctgggaat gtcctccccg tatttratag tggtccctga aatactactt ggtatttgta 60
aacaaatgtc tgtggtttgc cttccaagga ctttaatgta ggcttatctg gctgaaraat 120
tttgtgaraa atgctcacgt tagtgtcttt tgtctttctc ttgctcttgt tagagtctat 180

Sequence Listing.ST25.txt

gatttagagg atgtatgctt ggctgtggaa tatctcggag ctgaagagaa gaaggccagg 240
tcttagcaty ctttctatat aaatgtttyc ataccttacc ccattttcaa tatggtacay 300
cctyctccac catacakgtt tctctcaatt ttaggaatgt gtttccncca aa 352

<210> 164
<211> 660
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (592)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (645)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (649)
<223> n equals a,t,g, or c

<400> 164
agnctgggaa ctgtggatcc aaggctgccc ccacccccctg ggtctcgctc acatctgcac 60
tccccagagg grcaggtggt cctggagcct agcctacctg ccgagagtca gaggtggctg 120
caggggaacc atggcagccc tccttctcac actcatcctg ggcaccctgc accagcagaa 180
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ggatggcgac cttgaggctc agggaggtta aggtgccagc ctgagatcac acagccagtg 300
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agacatgaac tgattcaatc agagtgtatg gagaagggac ttatataccc tggtattttt 480
aaagctccct gtctctagta aaaatacaaa aattagccag gcgtagtggc aggcgcctgt 540
aatcccagct actccagang ctgaggcagg agaattgctt gaacctggga antggaggtt 600
gccgtgagcc agatcatgcc actgcactcc acctgggcaa caaantgana ctctgactcc 660

<210> 165
<211> 452
<212> DNA
<213> Homo sapiens

<400> 165
gaattcggca cgaggagccc ttggccagct ctgagacgct ttgtgagacc ccaaggtggg 60
tgttctagaa ggaagaagct ttggcttgct tactggaacc aagacaaaaa ttccaaataa 120
aattccaaat aaaaatgtaa atcgagtttt ttcctcgatt gtcacagaga ctctggtgaa 180
tatgttaagt tttcagaaag cgattctttt cctagcaatg ggctgcttgc cttgcattcc 240
tcaaggcctg tcctgtgcct tccatcctgc atccttccac aaggctctga gtggctgtag 300
gaccctcata tgacaggagg aggaggctga ccttggccaa ggtcacatat cccttctttt 360
atccattcga aaggctcttg ctgttgactg actatgcagc agacatagct gggccctggg 420
gagatgtgca aggcaaacac acccaagaga tt 452

<210> 166

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<211> 573
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (565)
<223> n equals a,t,g, or c

<400> 166
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cctgaagcca ggtgggtgtg ggcaggggct gcattttatg aaactgccca gcaagctgcg 180
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ggggcccggt acccatttng ccctntagtg ggt 573

<210> 167
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (305)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (317)
<223> n equals a,t,g, or c

<400> 167
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agcacccaaa tggggatgtg tcacctgtgt gtccatgtcg gtctactggt ttctctgttt 180
ccatctcagg ctgcaggctt cgtgtggatg aggatggcac ctttcctgtt cactgacaga 240
tactcagtgc ctagcacagt gcctgggaca caggaggtgc tcgtaggggg ggttccggta 300
cccantcgtc cctgatnatg 320

<210> 168
<211> 431
<212> DNA
<213> Homo sapiens

<400> 168
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ctttgttggc aatatttgcc gtgtagaatt ttttttagat atccattgta aatttgaaac 180
aaagaccgat ctgtgtaaaa acaaatttcc atatgtttta tataaatata tatataatat 240

PCT/US2003/041674

gaaggactac cctccttttt ttttttgtat tttggctgct agagtgcagc atttgtgaca 300
cgtatttgaa atttgaaatt tccttctgca ctgtataaaa ggaccatttg aggatgtttt 360
gccttttgtg tatttttttcc taaaaaaaga acaaaaataa aaatgtataa catttgtaaa 420
aaaaaaaaat a 431

<210> 169
<211> 162
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (158)
<223> n equals a,t,g, or c

<400> 169
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tacaaaatgt ggaacaattt gcagaatatt aatatcatgt cttaagtatt gccttaaatg 120
gtttgtggga tattacttga tattcacctt cttgatanat aa 162

<210> 170
<211> 1274
<212> DNA
<213> Homo sapiens

<400> 170
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gcaacagaaa tgacactgcc tgggatgagc tgaagctcac gtgtcagacg gcactgcatg 660
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ccaatttgat tttggatctt tcatatgtta ttgaagataa aaactaagag aatagcatgt 1200
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aaaaaaaaac tcga 1274

<210> 171
<211> 192
<212> PRT
<213> Homo sapiens

<400> 171
Met Ser Gln Gln Lys Cys Ile Val Ile Phe Ala Leu Val Cys Cys Phe
1 5 10 15

Ala Ile Leu Val Ala Leu Ile Phe Ser Ala Val Asp Ile Met Gly Glu
20 25 30

Asp Glu Asp Gly Leu Ser Glu Lys Asn Cys Gln Asn Lys Cys Arg Ile
35 40 45

```
Ala Leu Val Glu Asn Ile Pro Glu Gly Leu Asn Tyr Ser Glu Asn Ala
     50                  55                  60

Pro Phe His Leu Ser Leu Phe Gln Gly Trp Met Asn Leu Leu Asn Met
 65                  70                  75                  80

Ala Lys Lys Ser Val Asp Ile Val Ser Ser His Trp Asp Leu Asn His
                 85                  90                  95

Thr His Pro Ser Ala Cys Gln Gly Gln Arg Leu Phe Glu Lys Leu Leu
            100                 105                 110

Gln Leu Thr Ser Gln Asn Ile Glu Ile Lys Leu Val Ser Asp Val Thr
        115                 120                 125

Ala Asp Ser Lys Val Leu Glu Ala Leu Lys Leu Lys Gly Ala Glu Val
    130                 135                 140

Thr Tyr Met Asn Met Thr Ala Tyr Asn Lys Gly Arg Leu Gln Ser Ser
145                 150                 155                 160

Phe Trp Ile Val Asp Lys Gln His Val Tyr Ile Gly Ser Ala Gly Leu
                165                 170                 175

Asp Trp Gln Ser Leu Gly Gln Val His Ile Leu Leu Tyr Ser Cys Lys
            180                 185                 190
```

09305.0045-00000 #1469391

<210> 172
<211> 262
<212> PRT
<213> Homo sapiens

```
<400> 172
Met Gln Lys Leu Glu Leu Asn His Ser Glu Leu Ile Gln Gln Ser Gln
  1               5                  10                  15

Val Leu Trp Arg Met Ile Ala Glu Leu Lys Glu Arg Ser Gln Arg Pro
            20                  25                  30

Val Arg Trp Met Leu Gln Asp Ile Gln Glu Val Leu Asn Arg Ser Lys
        35                  40                  45

Ser Trp Ser Leu Gln Gln Pro Glu Pro Ile Ser Leu Glu Leu Lys Thr
     50                  55                  60

Asp Cys Arg Val Leu Gly Leu Arg Glu Ile Leu Lys Thr Tyr Ala Ala
 65                  70                  75                  80

Asp Val Arg Leu Asp Pro Asp Thr Ala Tyr Ser Arg Leu Ile Val Ser
                 85                  90                  95

Glu Asp Arg Lys Arg Val His Tyr Gly Asp Thr Asn Gln Lys Leu Pro
            100                 105                 110

Asp Asn Pro Glu Arg Phe Tyr Arg Tyr Asn Ile Val Leu Gly Ser Gln
        115                 120                 125

Cys Ile Ser Ser Gly Arg His Tyr Trp Glu Val Glu Val Gly Asp Arg
    130                 135                 140

Ser Glu Trp Gly Leu Gly Val Cys Lys Gln Asn Val Asp Arg Lys Glu
```

```
145                 150                 155                 160

Val Val Tyr Leu Ser Pro His Tyr Gly Phe Trp Val Ile Arg Leu Arg
                165                 170                 175

Lys Gly Asn Glu Tyr Arg Ala Gly Thr Asp Glu Tyr Pro Ile Leu Ser
            180                 185                 190

Leu Pro Val Pro Pro Arg Arg Val Gly Ile Phe Val Asp Tyr Glu Ala
        195                 200                 205

His Asp Ile Ser Phe Tyr Asn Val Thr Asp Cys Gly Ser His Ile Phe
    210                 215                 220

Thr Phe Pro Arg Tyr Pro Phe Pro Gly Arg Leu Leu Pro Tyr Phe Ser
225                 230                 235                 240

Pro Cys Tyr Ser Ile Gly Thr Asn Asn Thr Ala Pro Leu Ala Ile Cys
                245                 250                 255

Ser Leu Asp Gly Glu Asp
            260
```

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<210> 173
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 173

```
Met Arg Phe Ala Val Val Phe Leu Met Gln Phe Pro Thr Ser Leu Gln
  1               5                  10                  15

Met Pro Phe Asp Ile Trp Gln His Phe Met Pro Leu Pro Leu Ser Val
            20                  25                  30

Phe Ile Leu Val Phe Ser Pro Phe Ser His Xaa Leu Gly Ser Leu Leu
        35                  40                  45

Gln Ser Arg Phe Ser Asp Phe Arg Phe Phe Ser Leu Cys Pro Phe Pro
    50                  55                  60

Leu Cys Pro Val Thr Arg Ser Thr Phe Trp His Arg Pro Ile Ser Gln
65                  70                  75                  80

Phe Pro Leu Ser Gln Val Gln Gln His Leu Lys Asp Ile Tyr Lys Arg
                85                  90                  95

Asp Thr
```

<210> 174
<211> 116
<212> PRT
<213> Homo sapiens

<400> 174

```
Met Arg Pro Phe Leu Thr Ile Pro Leu Asn Ile Ala Leu Phe Phe Cys
  1               5                  10                  15
```

```
Thr Asp Pro Thr Pro Val Ala Leu Phe His Phe Ser Pro Glu Arg Leu
            20                  25                  30

Pro Pro Phe Thr Leu Leu Gln Asn Ser Leu Asp Phe His Ile Thr Ser
        35                  40                  45

Leu Pro Val Cys His Leu Ser Pro Pro Leu Glu Cys Gln Leu Gln Glu
    50                  55                  60

Gly Arg Asp Leu Gly Leu Cys Val His Cys Cys Val Pro Met Met Gln
65                  70                  75                  80

Gln Arg Val Leu Ser Lys Cys Leu Leu Ser Asp Cys Ile Asn Glu Trp
                85                  90                  95

Val Lys Cys Ile Gly Ile Lys Asn Met Gly Met Lys Pro Gly Val Val
            100                 105                 110

Gly Ser Cys Leu
        115
```

09505626.1 = P4050-PCT

<210> 175
<211> 53
<212> PRT
<213> Homo sapiens

<400> 175

```
Met Leu His Leu Lys Leu Trp Ser Phe Pro Val Ile Ser Val Phe Gly
  1               5                  10                  15

Val Val Leu Phe Phe Phe Leu Gln Glu Leu Leu Gln Glu Glu Arg Thr
            20                  25                  30

Met Ser Ser Thr Leu Glu Gly Ala Met Gly Thr Lys Gln Asn Ser Glu
        35                  40                  45

Ala Pro Ser Thr Ile
    50
```

<210> 176
<211> 99
<212> PRT
<213> Homo sapiens

<400> 176

```
Met Leu Ser Pro Gln Leu His Pro Leu Gln Val Pro Leu Pro Cys Leu
  1               5                  10                  15

Leu Leu Leu Phe Thr Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp
            20                  25                  30

Ile Ser Glu Asp Trp Glu Lys Asp Phe Asp Leu Asp Met Thr Glu Glu
        35                  40                  45

Glu Val Gln Met Ala Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser
    50                  55                  60

Gly Pro Gly Gly Ser Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu
65                  70                  75                  80

Ser Ser Pro Gln Pro Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser
                85                  90                  95

Cys Leu Arg
```

<210> 177
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 177
Met His Pro Ala Ala Phe Pro Leu Pro Val Val Val Ala Ala Val Leu
1 5 10 15

Trp Gly Ala Ala Pro Thr Arg Gly Leu Ile Arg Ala Thr Ser Asp His
20 25 30

Asn Ala Ser Met Asp Phe Ala Asp Leu Pro Ala Leu Phe Gly Ala Thr
35 40 45

Leu Ser Gln Glu Gly Leu Gln Gly Phe Leu Val Glu Ala His Pro Asp
50 55 60

Asn Ala Cys Ser Pro Ile Ala Pro Pro Xaa Pro Ala Pro Val Asn Gly
65 70 75 80

Ser Val Phe Ile Ala Leu Leu Xaa Arg Phe Asp Xaa Asn Phe Xaa Leu
85 90 95

Lys Val Leu Asn Ala Gln Lys Ala Gly Tyr Gly Ala Ala Val Val His
100 105 110

Asn Val Asn Ser Asn Glu Leu Leu Asn Met Val Leu
115 120

<210> 178
<211> 58
<212> PRT
<213> Homo sapiens

<400> 178
Met Ala Trp Arg Val Trp Cys Leu Trp Gly Ile Pro Pro Leu Phe Cys
1 5 10 15

Ser Pro Gly Thr Leu Ser Cys Val Cys Val Ser Phe Leu Ser Pro Gly
20 25 30

Asn Gly Met Ala Ser Glu His His Pro Arg Ser Ile Phe Pro Leu Gln
35 40 45

Asn Asp Val Ser Ser His Val Cys Phe Cys
50 55

<210> 179
<211> 264
<212> PRT
<213> Homo sapiens

<400> 179
Met His Asn Pro Asp Gly Ser Ala Ser Pro Thr Ala Asp Pro Gly Ser
1 5 10 15

Glu Leu Gln Thr Leu Gly Gln Ala Ala Arg Arg Pro Pro Pro Pro Arg
20 25 30

Ala Gly His Asp Ala Pro Arg Arg Thr Arg Pro Ser Ala Arg Lys Pro
35 40 45

Leu Ser Cys Phe Ser Arg Arg Pro Met Pro Thr Arg Glu Pro Pro Lys
50 55 60

Thr Arg Gly Ser Arg Gly His Leu His Thr His Pro Pro Gly Pro Gly
65 70 75 80

Pro Pro Leu Gln Gly Leu Ala Pro Arg Gly Leu Lys Thr Ser Ala Pro
85 90 95

Arg Pro Pro Cys Gln Pro Gln Pro Gly Pro His Lys Ala Lys Thr Lys
100 105 110

Lys Ile Val Phe Glu Asp Glu Leu Leu Ser Gln Ala Leu Leu Gly Ala
115 120 125

Lys Lys Pro Ile Gly Ala Ile Pro Lys Gly His Lys Pro Arg Pro His
130 135 140

Pro Val Pro Asp Tyr Glu Leu Lys Tyr Pro Pro Val Ser Ser Glu Arg
145 150 155 160

Glu Arg Ser Arg Tyr Val Ala Val Phe Gln Asp Gln Tyr Gly Glu Phe
165 170 175

Leu Glu Leu Gln His Glu Val Gly Cys Ala Gln Ala Lys Leu Arg Gln
180 185 190

Leu Glu Ala Leu Leu Ser Ser Leu Pro Pro Pro Gln Ser Gln Lys Glu
195 200 205

Ala Gln Val Ala Ala Arg Val Trp Arg Glu Phe Glu Met Lys Arg Met
210 215 220

Asp Pro Gly Phe Leu Asp Lys Gln Ala Arg Cys His Tyr Leu Lys Gly
225 230 235 240

Lys Leu Arg His Leu Lys Thr Gln Ile Gln Lys Phe Asp Asp Gln Gly
245 250 255

Asp Ser Glu Gly Ser Val Tyr Phe
260

<210> 180

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<211> 379
<212> PRT
<213> Homo sapiens

<400> 180

```
Met Pro Thr Ser Ser Ser Ser Asn Ala Ala Glu Arg Gln Arg Arg Asn
  1               5                  10                  15

Thr Arg Ser Pro Lys Gly Gln Lys Lys Lys Lys Ile Val Lys Tyr Gly
            20                  25                  30

Met Gly Gly Leu Ile Ile Leu Phe Leu Ile Ala Ile Ile Trp Phe Pro
        35                  40                  45

Leu Leu Phe Met Ser Leu Val Arg Ser Val Val Gly Val Val Asn Gln
    50                  55                  60

Pro Ile Asp Val Thr Val Thr Leu Lys Leu Gly Gly Tyr Glu Pro Leu
65                  70                  75                  80

Phe Thr Met Ser Ala Gln Gln Pro Ser Ile Ile Pro Phe Thr Ala Gln
                85                  90                  95

Ala Tyr Glu Glu Leu Ser Arg Gln Phe Asp Pro Gln Pro Leu Ala Met
            100                 105                 110

Gln Phe Ile Ser Gln Tyr Ser Pro Glu Asp Ile Val Thr Ala Gln Ile
        115                 120                 125

Glu Gly Ser Ser Gly Ala Leu Trp Arg Ile Ser Pro Pro Ser Arg Ala
    130                 135                 140

Gln Met Lys Arg Glu Leu Tyr Asn Gly Thr Ala Asp Ile Thr Leu Arg
145                 150                 155                 160

Phe Thr Trp Asn Phe Gln Arg Asp Leu Ala Lys Gly Gly Thr Val Glu
                165                 170                 175

Tyr Ala Asn Glu Lys His Met Leu Ala Leu Ala Pro Asn Ser Thr Ala
            180                 185                 190

Arg Arg Gln Leu Ala Ser Leu Leu Glu Gly Thr Ser Asp Gln Ser Val
        195                 200                 205

Val Ile Pro Asn Leu Phe Pro Lys Tyr Ile Arg Ala Pro Asn Gly Pro
    210                 215                 220

Glu Ala Asn Pro Val Lys Gln Leu Gln Pro Asn Glu Glu Ala Asp Tyr
225                 230                 235                 240

Leu Gly Val Arg Ile Gln Leu Arg Arg Glu Gln Gly Ala Gly Ala Thr
                245                 250                 255

Gly Phe Leu Glu Trp Trp Val Ile Glu Leu Gln Glu Cys Arg Thr Asp
            260                 265                 270

Cys Asn Leu Leu Pro Met Val Ile Phe Ser Asp Lys Val Ser Pro Pro
        275                 280                 285

Ser Leu Gly Phe Leu Ala Gly Tyr Gly Ile Met Gly Leu Tyr Val Ser
    290                 295                 300

Ile Val Leu Val Ile Gly Lys Phe Val Arg Gly Phe Phe Ser Glu Ile
305                 310                 315                 320

Ser His Ser Ile Met Phe Glu Glu Leu Pro Cys Val Asp Arg Ile Leu
```

```
                325                 330                 335

Lys Leu Cys Gln Asp Ile Phe Leu Val Arg Glu Thr Arg Glu Leu Glu
            340                 345                 350

Leu Glu Glu Glu Leu Tyr Ala Lys Leu Ile Phe Leu Tyr Arg Ser Pro
        355                 360                 365

Glu Thr Met Ile Lys Trp Thr Arg Glu Lys Glu
    370                 375
```

<210> 181
<211> 47
<212> PRT
<213> Homo sapiens

<400> 181
Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
 1 5 10 15

Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
 20 25 30

Cys Arg Thr Pro Thr Leu Leu Asp Tyr Leu Arg Gln His Phe Leu
 35 40 45

<210> 182
<211> 238
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (233)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 182

```
Met Arg Leu Arg Phe Trp Leu Leu Ile Trp Leu Leu Leu Gly Phe Ile
  1               5                  10                  15

Ser His Gln Pro Thr Pro Val Ser Phe Leu Lys Thr Ile Phe Trp Ser
            20                  25                  30

Arg Asn Gly His Asp Arg Ser Arg Asp Val Gln Gln Arg Ala Arg Arg
        35                  40                  45

Ser Asn Arg Xaa Arg Gln Xaa Gly Ile Lys Ile Gly Leu Glu Asp Ile
    50                  55                  60

Cys Thr Leu Trp Lys Gln Ala Glu Thr Lys Val Gln Ala Lys Ile Arg
65                  70                  75                  80

Lys Met Lys Val Thr Lys Lys Xaa Asn His His Xaa Lys Ile Asn Gly
                85                  90                  95

Lys Arg Lys Thr Ala Lys Asn Arg Lys Cys Phe Asn Val Arg Lys Ser
            100                 105                 110

Cys Gly Gly Gly Gln Arg Thr Thr Thr Xaa Ala Lys Ser Pro Xaa Leu
        115                 120                 125

Gln Glu Ser Leu Phe Ala Thr Gly Ser Glu Trp Arg Gln Xaa Ser Met
    130                 135                 140

Xaa His Ser Ser Gly Leu Pro Xaa Trp Pro Tyr Leu Thr Ala Glu Thr
145                 150                 155                 160

Leu Lys Asn Arg Met Gly Xaa Gln Pro Pro Pro Pro Thr Gln Gln His
                165                 170                 175
```

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Ser Ile Thr Asp Asn Ser Leu Ser Leu Lys Thr Pro Pro Glu Cys Xaa
180 185 190

Leu His Pro Leu Pro Pro Ser Val Asp Asp Asn Ile Lys Glu Cys Pro
195 200 205

Leu Ala Pro Xaa Pro Pro Ser Val Asp Asp Asn Leu Lys Glu Cys Leu
210 215 220

Pro Gly Pro Ser Ser Thr Leu Ser Xaa Ser Thr Leu Ser Gly
225 230 235

<210> 183
<211> 27
<212> PRT
<213> Homo sapiens

<400> 183
Met Ser His Phe Val Leu Phe Leu Ile Leu Leu Ile Leu Ser Leu Ser
1 5 10 15

Lys Asp Thr Asn Leu Trp Ile Gln Val Lys Gly
20 25

<210> 184
<211> 101
<212> PRT
<213> Homo sapiens

<400> 184
Met Gly Cys Leu Cys Leu Ser Leu Thr Met Gly Cys Leu Val Tyr Gly
1 5 10 15

Leu Leu Gln Gly Trp Gly Lys Lys Pro Tyr Trp Gln Val Ala Pro Ile
20 25 30

Gln Leu Glu Pro Ile Phe His Arg Arg Ser Gly Cys Glu Pro Leu Ala
35 40 45

Ile Ile Ile His Ser Leu Trp Gly Met Gly Thr Pro Ala Val Lys Arg
50 55 60

Ile Trp Ala Arg His Gln Arg Tyr Pro Pro His His Asp Gly Tyr Asn
65 70 75 80

Leu Val Ser Lys Arg Glu Gly Arg Gln Asp Leu Gly Leu Thr Leu Val
85 90 95

Tyr Arg Pro Glu Asn
100

<210> 185
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

Application/Control Number: 10/564,574

<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 185
Met Lys Pro Leu Gln His Xaa Gly Xaa Arg Ile Phe Phe Leu Gly Leu
1 5 10 15

Ser Ala Pro Phe Asn Pro Gly Leu Cys Gln Ala Ala Pro Leu Leu Arg
20 25 30

Gly Phe Trp Gly
35

<210> 186
<211> 27
<212> PRT
<213> Homo sapiens

<400> 186
Met Pro Lys Thr Leu Leu Arg Ser Phe Leu Leu Leu Phe Phe Leu Leu
1 5 10 15

Gln Thr His Ser Ser Ser Leu Arg Lys Val Lys
20 25

<210> 187
<211> 25
<212> PRT
<213> Homo sapiens

<400> 187
Met Leu Val Leu Leu Leu Phe Trp Ser Leu Gly Trp Asn Lys Lys Val
1 5 10 15

Val Leu Pro Leu Asp Ser Leu Cys Pro
20 25

<210> 188
<211> 80
<212> PRT
<213> Homo sapiens

<400> 188
Met Cys Val Val Cys Val Cys Val Trp Cys Met Cys Val Cys Gly Val
1 5 10 15

Cys Val Cys Leu Cys Val Cys Gly Val Cys Met Cys Ile Ser Leu Asn
20 25 30

Glu Lys Leu Ala Pro Met Ile Met Glu Leu Thr Thr Pro Lys Val Cys
35 40 45

Arg Gln Gln Ala Gly Gly Pro Gly Gly Pro Val Val Trp Leu Gln Pro
50 55 60

Val Ser Glu Gly Leu Arg Thr Arg Arg Ala Gly Gly Ala Ala Ala Val
65 70 75 80

<210> 189

<211> 431
<212> PRT
<213> Homo sapiens

<400> 189

```
Met Lys Asn Pro Ile Leu Glu Arg Leu Ala Glu Gln Ile Ala Thr Leu
  1               5                  10                  15

Cys Ala Thr Leu Lys Glu Tyr Pro Ala Val Arg Tyr Arg Gly Glu Tyr
            20                  25                  30

Lys Asp Asn Ala Leu Leu Ala Gln Leu Ile Gln Asp Lys Leu Asp Ala
        35                  40                  45

Tyr Lys Ala Asp Asp Pro Thr Met Gly Glu Gly Pro Asp Lys Ala Arg
    50                  55                  60

Ser Gln Leu Leu Ile Leu Asp Arg Gly Phe Asp Pro Ser Ser Pro Val
65                  70                  75                  80

Leu His Glu Leu Thr Phe Gln Ala Met Ser Tyr Asp Leu Leu Pro Ile
                85                  90                  95

Glu Asn Asp Val Tyr Lys Tyr Glu Thr Ser Gly Ile Gly Glu Ala Arg
            100                 105                 110

Val Lys Glu Val Leu Leu Asp Glu Asp Asp Asp Leu Trp Ile Ala Leu
        115                 120                 125

Arg His Lys His Ile Ala Glu Val Ser Gln Glu Val Thr Arg Ser Leu
    130                 135                 140

Lys Asp Phe Ser Ser Ser Lys Arg Met Asn Thr Gly Glu Lys Thr Thr
145                 150                 155                 160

Met Arg Asp Leu Ser Gln Met Leu Lys Lys Met Pro Gln Tyr Gln Lys
                165                 170                 175

Glu Leu Ser Lys Tyr Ser Thr His Leu His Leu Ala Glu Asp Cys Met
            180                 185                 190

Lys His Tyr Gln Gly Thr Val Asp Lys Leu Cys Arg Val Glu Gln Asp
        195                 200                 205

Leu Ala Met Gly Thr Asp Ala Glu Gly Glu Lys Ile Lys Asp Pro Met
    210                 215                 220

Arg Ala Ile Val Pro Ile Leu Leu Asp Ala Asn Val Ser Thr Tyr Asp
225                 230                 235                 240

Lys Ile Arg Ile Ile Leu Leu Tyr Ile Phe Leu Lys Asn Gly Ile Thr
                245                 250                 255

Glu Glu Asn Leu Asn Lys Leu Ile Gln His Ala Gln Ile Pro Pro Glu
            260                 265                 270

Asp Ser Glu Ile Ile Thr Asn Met Ala His Leu Gly Val Pro Ile Val
        275                 280                 285

Thr Asp Ser Thr Leu Arg Arg Arg Ser Lys Pro Glu Arg Lys Glu Arg
    290                 295                 300

Ile Ser Glu Gln Thr Tyr Gln Leu Ser Arg Trp Thr Pro Ile Ile Lys
305                 310                 315                 320

Asp Ile Met Glu Asp Thr Ile Glu Asp Lys Leu Asp Thr Lys His Tyr
```

```
                325                 330                 335

Pro Tyr Ile Ser Thr Arg Ser Ser Ala Ser Phe Ser Thr Thr Ala Val
            340                 345                 350

Ser Ala Arg Tyr Gly His Trp His Lys Asn Lys Ala Pro Gly Glu Tyr
        355                 360                 365

Arg Ser Gly Pro Arg Leu Ile Ile Phe Ile Leu Gly Gly Val Ser Leu
    370                 375                 380

Asn Glu Met Arg Cys Ala Tyr Glu Val Thr Gln Ala Asn Gly Lys Trp
385                 390                 395                 400

Glu Val Leu Ile Gly Ser Thr His Ile Leu Thr Pro Gln Lys Leu Leu
                405                 410                 415

Asp Thr Leu Lys Lys Leu Asn Lys Thr Asp Glu Glu Ile Ser Ser
            420                 425                 430
```

Application Number: 10/552,050
Inventor: Gerber et al.
Docket No.: 2004P00763WOUS

<210> 190
<211> 88
<212> PRT
<213> Homo sapiens

<400> 190

```
Met His Cys Leu Ile Ser Phe Leu Ala Leu Ser Leu Phe Leu Tyr Val
  1               5                  10                  15

Cys Phe Ser Leu Phe Leu Ala Asn Lys Lys Tyr Leu Leu Ser Asn Ser
            20                  25                  30

Arg Leu Leu Tyr Lys Val Thr Ile Leu Ser Ser Leu Ser Ile Phe Phe
        35                  40                  45

Leu Ser Ser Ser Thr Ser Glu Lys Val Ile Leu Asn Asn Ser Leu Val
    50                  55                  60

Cys Ile Gln Lys Ser Phe Phe Val Ala Leu Phe Ser Lys Val Phe Glu
65                  70                  75                  80

Ala Phe Leu Leu Ile Lys Phe Leu
                85
```

<210> 191
<211> 29
<212> PRT
<213> Homo sapiens

<400> 191

```
Met Ala Pro Ser Pro Phe Trp Val Leu Ile Met Pro Leu Leu Val Thr
  1               5                  10                  15

Leu Gly Ser Cys Cys Thr Gln Val Met Gly Pro Pro Ala
            20                  25
```

<210> 192
<211> 115
<212> PRT
<213> Homo sapiens

<400> 192

```
Met Phe Ser Ile Arg Ile Leu Ser Ser Ser Ala Phe Cys Ser Cys Ser
```

```
 1               5                  10                  15

Phe Leu Ala Cys Ser Ser Ala Leu Ser Phe Leu Ile Phe Ser Ser Ser
            20                  25                  30

Ala Arg Arg Ala Ala Val Ser Ser Ser Ser Leu Ser Ser Ser Lys Ser
        35                  40                  45

Ser Ser Ser Ser Ser Val Arg Gly Ser Ser Ala Ser Arg Leu Ala Ala
    50                  55                  60

Gly Ile Trp Ser Asn Arg Gly Phe Phe Asp Thr Glu Glu Glu Val Val
65                  70                  75                  80

Cys Ser Arg Val Gly Arg Ser Leu Phe Phe Ser Leu Ala Ala Ala Leu
                85                  90                  95

Ser Leu Ser Ser Asn Ser Leu Leu Lys Ser Arg Leu Arg Thr Ser Ser
            100                 105                 110

Gly Ala Ser
        115
```

Replacement Sheet

<210> 193
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 193
```
Met Ala Leu Leu Leu Leu Ala Val Pro Pro Val Lys Ser Phe Leu Thr
 1               5                  10                  15

Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Ala Arg Tyr Pro Ile Arg
            20                  25                  30

Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro Ser Xaa
        35                  40                  45
```

<210> 194
<211> 60
<212> PRT
<213> Homo sapiens

<400> 194
```
Met Lys Trp Lys Trp Ile Ile Met Lys Val Phe Ile Pro Val Phe Thr
 1               5                  10                  15

Leu Ser Arg Leu Ser Cys Cys Leu Arg Gly Gly Arg Gly Gly Arg Gly
            20                  25                  30

Gly Gly Ser Gly Trp Gly Gly Gly Arg Gly Gly Gly Ser Gly Trp Glu
        35                  40                  45

Gly Gly Arg Gly Arg His Thr Trp Cys Asn Phe Cys
    50                  55                  60
```

<210> 195
<211> 62

<212> PRT
<213> Homo sapiens

<400> 195
Met Arg Lys Lys Ser Phe His Ala Glu Tyr Tyr Asn Ser Leu Leu Leu
1 5 10 15

Leu Leu Phe Leu Pro Glu Asn Asn Asp Ser Arg Gln Asp Ile Gly Arg
20 25 30

Val Ile Phe Gly Glu Ser Asp Gln Pro Lys Ser Lys Tyr Leu Lys Val
35 40 45

Leu Ile Leu Glu Ile Pro Arg Lys Trp Leu Ser Gln Thr Tyr
50 55 60

<210> 196
<211> 113
<212> PRT
<213> Homo sapiens

<400> 196
Met Asp Pro Glu Pro Gln Thr Phe His Pro Val Leu Ser Leu Leu Ser
1 5 10 15

Phe Leu Phe Lys Ala Pro Leu Val Pro Pro Gly Ser Pro Val Val Asn
20 25 30

Ala Leu Phe Arg Gln Arg Ser Cys Ile Glu Asn Ile Leu Arg Ala Cys
35 40 45

Val Gly Leu Pro Pro Gln Asn His Met Leu Leu Glu His Lys Met Glu
50 55 60

Arg Pro Gly Pro Ser Leu Lys Arg Val Gly Pro Val Ala Ala Thr Tyr
65 70 75 80

Pro Met Leu Asn Lys Lys Gly Pro Val Pro Ala Ala Thr Asn Gly Cys
85 90 95

Thr Gly Asp Ala Asn Gly His Leu Gln Glu Glu Pro Pro Met Pro Thr
100 105 110

Thr

<210> 197
<211> 69
<212> PRT
<213> Homo sapiens

<400> 197
Met Leu Ser Gly Thr Leu Leu Ser Phe Pro Ile Val Ala Cys Ala Ser
1 5 10 15

Ile Leu Tyr Leu Ala Gln Thr Trp Cys Gln Glu Trp Asn His Leu Asp
20 25 30

Phe Ser Ala Ser Ala Asn Ile Pro Ser Leu Ile Tyr His Pro Met Met
35 40 45

Lys Lys Ile Ile Ala Cys Ile Leu Lys Leu Lys Thr Ser Val Leu Pro
50 55 60

Gln Ile Pro Glu Thr
65

<210> 198
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 198
Met Gly Ser Ser Arg Gly Val Leu Phe Cys Phe Val Leu Ile Xaa Leu
1 5 10 15

Val Val Gly Ile Ala Gly Arg Glu Ile Lys Phe
20 25

<210> 199
<211> 34
<212> PRT
<213> Homo sapiens

<400> 199
Met Asn Cys Ala Lys Ala Ser Pro Val Val Ile Leu Pro Leu Val Ala
1 5 10 15

Leu Pro Val Leu Ala Pro His Pro Thr Pro Met Pro Leu Phe Pro Tyr
20 25 30

Arg Phe

<210> 200
<211> 47
<212> PRT
<213> Homo sapiens

<400> 200
Met Leu Leu Leu Leu Ser Leu Ser Ser Pro Pro His Pro Ser Arg Pro
1 5 10 15

Ser Leu Asn Pro Tyr Phe Leu Thr Glu Ala Phe Pro Asp Ser Ser Thr
20 25 30

Leu Ser His Phe Pro Leu Leu Gln Ala Leu Leu Thr His Gln Leu
35 40 45

<210> 201
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 201
Met His Ser Ser Ala Glu Thr Leu Leu Cys Trp Pro Leu Phe Val Gly

1 5 10 15

Val Ala Val Gly Gly Gln Gly Ala Ser Ser Lys Ser Ser Ser Xaa Trp
20 25 30

Thr Leu Ser Arg Ala
35

<210> 202
<211> 41
<212> PRT
<213> Homo sapiens

<400> 202
Met Ser Gly Ala Trp Gly Ser Gly Phe Ala Gly Ala Leu Trp Ser Met
1 5 10 15

Gly Leu Cys Ala Ser Ser Val Trp Gly Asn Ser Trp Asp Ile Asp Phe
20 25 30

Cys Pro Arg Asp Ser His Gly Glu Trp
35 40

<210> 203
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 203
Met Gly Met Ile Leu Val Leu Ala Ser Phe Leu Ala His Pro Val Glu
1 5 10 15

Ala Leu Ala Gln Ala Val Ala Leu Gly Gln Gln Gln Leu Ala Leu Leu
20 25 30

Gly Val Gln Xaa His Ala Val Glu Gly Phe Leu Gln Leu Gln Xaa Cys
35 40 45

Phe Ala Xaa Leu Phe Val Phe Glu Gly Ala Leu Leu Ala His Leu Gly
50 55 60

His Phe Phe Val Glu Pro Gly Ala Ala Gln Gly Gln Leu Leu Asp Leu
65 70 75 80

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Gly Leu Xaa Arg Arg Glu Leu Gly Phe Gln Phe Ala Leu Leu Ala Arg
85 90 95

Phe Val Leu Gln
100

<210> 204
<211> 42
<212> PRT
<213> Homo sapiens

<400> 204
Met Glu Gly Thr Phe Thr Val Trp Ser Gly Gly Leu Ala Val Tyr Val
1 5 10 15

Trp Ala Val Trp Cys Ser Val His Gly Trp Cys Phe Leu Cys Gly Cys
20 25 30

Leu Gln Ser Ala Leu Leu Lys Leu Phe Met
35 40

<210> 205
<211> 24
<212> PRT
<213> Homo sapiens

<400> 205
Met His Leu Phe Leu Leu Val Lys Phe Trp Asn Leu Trp Thr Gly Gln
1 5 10 15

Leu Leu Leu Ile Thr Lys Leu Phe
20

<210> 206
<211> 38
<212> PRT
<213> Homo sapiens

<400> 206
Met Glu Val Val Leu Val Leu Leu Ala Ser Ala Cys His Leu Leu Leu
1 5 10 15

Gly Gly His Thr Thr Val Glu Gly His Ala Ala Trp Arg Trp Pro Gly
20 25 30

Trp Pro Cys Cys Pro Gly
35

<210> 207
<211> 37
<212> PRT
<213> Homo sapiens

<400> 207
Met Pro Leu Asp Ala Ala Lys Ser Met Val Val Phe Asn Phe Ala Ile
1 5 10 15

Leu Leu Phe Phe Leu Pro Asp Pro Gly Met Ser Leu Asp Ile Ala Lys
20 25 30

Ile Tyr Phe Cys Ser
35

<210> 208
<211> 43
<212> PRT
<213> Homo sapiens

<400> 208
Met Pro Tyr Pro Leu Trp Gln Trp Ser Val Trp Met Leu Thr Cys Ala
1 5 10 15

Ile Cys Pro Pro Val Cys Ala Arg Arg His Leu Ser Ser Leu Leu Leu
20 25 30

Ser Cys Pro Lys Gly Leu Gly Arg Ala Ser Thr
35 40

<210> 209
<211> 54
<212> PRT
<213> Homo sapiens

<400> 209
Met Ser Val Phe Ser Gly Cys Arg Leu Val Tyr Ile Ala Ile Ile Phe
1 5 10 15

Cys Leu Leu Met Phe Asp Leu Ala Leu Asn Gln Leu Phe Leu Val Asn
20 25 30

Thr Leu Tyr Asn Asn Leu Leu Ser Ser Arg Asp Ser Ser Phe Leu Glu
35 40 45

Met Asn Phe Ser Tyr Glu
50

<210> 210
<211> 62
<212> PRT
<213> Homo sapiens

<400> 210
Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr
1 5 10 15

Gln Cys Cys Leu Ile Gly Leu Leu Val Pro Leu Leu Gly Trp Gly Asn
20 25 30

Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp
35 40 45

Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His Met Val
50 55 60

<210> 211
<211> 38
<212> PRT
<213> Homo sapiens

<400> 211
Met Leu Arg Gly Ala Ser Gly Met Cys Arg Gly His Leu His Leu Ile
1 5 10 15

Val Phe Phe Pro Val Leu Leu Leu Ser His Pro Leu Tyr Lys Lys Trp

20 25 30

Val Leu Thr Trp Ser Leu
35

<210> 212
<211> 41
<212> PRT
<213> Homo sapiens

<400> 212
Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Ala Leu
1 5 10 15

Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr
20 25 30

Pro Leu Pro Asp Glu Ser Glu His Phe
35 40

<210> 213
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 213
Met Pro Arg Cys Ile Xaa Phe Met Cys Val Leu Leu Leu Pro Ser Gly
1 5 10 15

Ala Gly Pro Pro Trp Gly Asn Cys Cys Pro Asp
20 25

<210> 214
<211> 28
<212> PRT
<213> Homo sapiens

<400> 214
Met Phe Phe Ile Phe Phe Met Leu Ser Ile Gln Ala Leu Phe His Gly
1 5 10 15

Gln Gln Val Ile Phe His Asn Val Asp Phe Pro Lys
20 25

<210> 215
<211> 125
<212> PRT
<213> Homo sapiens

<400> 215
Met Ala Thr Pro His Pro His Pro Ala Ala Gln Leu Leu Cys Leu Leu
1 5 10 15

Phe Cys Leu Pro His Leu Ser Val Ala Val Phe Val Leu Ser Ser Pro
20 25 30

Ala Pro His Phe Val Lys Trp Pro Leu Gly Glu Cys Phe Cys Trp Ile

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         35                  40                  45

Cys Ser Leu Ser Leu Ser His Ser Thr Thr Phe Trp Asn Lys Val Met
     50                  55                  60

Ala Glu Cys Gly Gly Gly Gly Gly Leu Leu Tyr Cys Trp Ile Asn Lys
 65                  70                  75                  80

Met Ile Leu Lys Ser Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
                 85                  90                  95

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
            100                 105                 110

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Pro
        115                 120                 125
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<210> 216
<211> 37
<212> PRT
<213> Homo sapiens

<400> 216
Met Tyr Ser Phe Lys Ala Ala Leu Gly Val Lys His Arg Arg Tyr Met
 1 5 10 15

Gln His Leu Val Ile Ile Ser Ala Leu Phe Cys Ser Leu Leu Gly Thr
 20 25 30

Leu Ile Thr Lys Cys
 35

<210> 217
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 217
Met Ser His Ser Ala Leu Pro Val Leu Phe Ile Leu Leu Leu Leu Phe
 1 5 10 15

Pro Leu Pro Leu Glu Pro Leu Xaa Cys Glu Ser Cys Thr Xaa Cys Val
 20 25 30

Ser Leu Ser Cys Pro Leu Tyr Ser His Ser Ser Cys Ser Leu Ile His
 35 40 45

Leu Phe Ile Gln His Ile Tyr Phe Glu Arg Leu Ala Gln Cys Gln Ala
 50 55 60

Leu Ser Leu Ile Val Glu Thr His Lys Leu Lys Arg Asp Ser Tyr Pro
 65 70 75 80

Asp Leu Lys Leu Met Thr Ile
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<210> 218
<211> 41
<212> PRT
<213> Homo sapiens

<400> 218
Met Arg Leu Trp Leu Gln Glu Cys Leu Cys Phe Leu Leu Leu Ser Ser
1 5 10 15

His Gln Gly Phe Phe His Leu Asn Leu Val Phe Ile Cys Leu Phe Leu
20 25 30

Leu His Pro Cys Leu Leu Leu Cys Lys
35 40

<210> 219
<211> 44
<212> PRT
<213> Homo sapiens

<400> 219
Met Val Leu Lys Gln Lys Gln Tyr Leu Phe Thr Val Gly Ile Leu Phe
1 5 10 15

Ile Leu Phe Phe Ser Pro Val Asn Ala Val Lys Arg Phe Ile Pro Leu
20 25 30

Arg Pro Gly Ser Ser Gln Ala Tyr Met Leu Leu Gly
35 40

<210> 220
<211> 19
<212> PRT
<213> Homo sapiens

<400> 220
Met Met Thr Met Leu Met Ile Leu Ile Val Pro Ala Ile Ala Gln Arg
1 5 10 15

Lys Val Arg

<210> 221
<211> 52
<212> PRT
<213> Homo sapiens

<400> 221
Met Thr Leu His Ile Leu Leu Asn Leu Leu Tyr Phe Ser Leu Val Ala
1 5 10 15

Phe Thr Thr Trp Leu Thr Val Tyr Leu Pro Ile Cys Tyr Cys Leu Pro
20 25 30

Ile Pro Ala Gly Thr Gln Thr Leu Gly Arg Gln Arg Leu Cys Leu Ile
35 40 45

His Tyr Cys Ile
50

<210> 222
<211> 40
<212> PRT
<213> Homo sapiens

<400> 222
Met Gln His Leu Pro Gly Leu Ser Leu His Leu Val Leu Val Phe Leu
1 5 10 15

Glu Ser Leu Gly Ser Cys Ala Thr Pro His Pro Arg Ala Ala Pro Ala
20 25 30

Ala Lys Lys Lys Lys Lys Lys Lys
35 40

<210> 223
<211> 26
<212> PRT
<213> Homo sapiens

<400> 223
Met Leu Ala Val Leu Phe Phe Ser Ser Tyr Ser Leu Gly Glu Leu Ala
1 5 10 15

His Ser Leu Gly Leu Asn Cys Thr Phe Ile
20 25

<210> 224
<211> 24
<212> PRT
<213> Homo sapiens

<400> 224
Met Leu Phe Leu Phe Gln Ile Ser Ser Leu Val Gly Leu Phe Ser Ala
1 5 10 15

Thr Leu Leu Gly Val Phe Gly Asn
20

<210> 225
<211> 198
<212> PRT
<213> Homo sapiens

<400> 225
Met Ala Ala Leu Thr Ala Glu His Phe Ala Ala Leu Gln Ser Leu Leu
1 5 10 15

Lys Ala Ser Ser Lys Asp Val Val Arg Gln Leu Cys Gln Glu Ser Phe
20 25 30

Ser Ser Ser Ala Leu Gly Leu Lys Lys Leu Leu Asp Val Thr Cys Ser
35 40 45

Ser Leu Ser Val Thr Gln Glu Glu Ala Glu Glu Leu Leu Gln Ala Leu
50 55 60

His Arg Leu Thr Arg Leu Val Ala Phe Arg Asp Leu Ser Ser Ala Glu
65 70 75 80

Ala Ile Leu Ala Leu Phe Pro Glu Asn Phe His Gln Asn Leu Lys Asn
85 90 95

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Leu Leu Thr Lys Ile Ile Leu Glu His Val Ser Thr Trp Arg Thr Glu
            100                 105                 110

Ala Gln Ala Asn Gln Ile Ser Leu Pro Arg Leu Val Asp Leu Asp Trp
        115                 120                 125

Arg Val Asp Ile Lys Thr Ser Ser Asp Ser Ile Ser Arg Met Ala Val
    130                 135                 140

Pro Thr Cys Leu Leu Gln Met Lys Ile Gln Glu Asp Pro Ser Leu Cys
145                 150                 155                 160

Gly Asp Lys Pro Ser Ile Ser Ala Val Thr Val Glu Leu Ser Lys Glu
                165                 170                 175

Thr Leu Asp Thr Met Leu Asp Gly Leu Gly Arg Ile Arg Asp Gln Leu
            180                 185                 190

Ser Ala Val Ala Ser Lys
        195
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<210> 226
<211> 25
<212> PRT
<213> Homo sapiens

<400> 226
Leu Glu Leu Trp Leu Phe Ile Phe Ile Leu Pro Phe Leu Phe Leu Gly
 1 5 10 15

Lys Arg Gln Gly Leu Ala Phe Cys Pro
 20 25

<210> 227
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 227
Met Val Ser Phe Val Gly Ile Cys Leu Leu Leu Gly Ser Phe Phe Ser
 1 5 10 15

Pro Ser Leu Gln Gly Thr Ile Trp His His Pro Ala Lys Pro Asp Gly
 20 25 30

Ser Gly His Gly Leu Pro Ser Phe Ala Val Ile Met Gly Lys Gln Val
 35 40 45

Val Pro Thr Val Tyr Trp Arg Met Pro Tyr Pro Arg Arg Gly Gly Pro
 50 55 60

Gly Thr Xaa Phe Ala Leu
65 70

<210> 228
<211> 26
<212> PRT

<213> Homo sapiens

<400> 228
Met Val Leu Val Leu Thr Thr Leu Ser Leu Leu Pro Leu Leu Ile Ser
1 5 10 15

Pro Cys Asn Tyr Glu Ile Asn Phe Ser Leu
20 25

<210> 229
<211> 79
<212> PRT
<213> Homo sapiens

<400> 229
Met Gly Leu Cys Glu Ala Ser Cys Ser Ser Leu Asp Asn Ala Leu Pro
1 5 10 15

Val His Ser Val Leu Val Val Ser Val Ser Ser Ser Val Phe Thr Gly
20 25 30

Leu Gly Ser Cys Tyr Ser Pro Cys Leu Phe Pro Glu Cys Leu Arg Val
35 40 45

Thr Glu Met Lys Lys Pro Leu Gly Ser Arg Lys Cys Gly Leu Ala Leu
50 55 60

Ile Trp Phe Gly Phe Val Ser Pro Pro Lys Ser His Leu Glu Leu
65 70 75

<210> 230
<211> 45
<212> PRT
<213> Homo sapiens

<400> 230
Met Gln Leu Leu Gln Leu Ser Phe Gln Leu Leu Val Ser Leu Ile Leu
1 5 10 15

Pro Thr Ile Tyr Thr Leu Pro Gln Phe Gln Ile Trp Lys Gln Val Pro
20 25 30

Asp Ile Asn Ile Ile Ser Ser Ser Thr Phe Gln Tyr Ala
35 40 45

<210> 231
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 231
Met Val Leu Val Ile Ser Leu Ala Ala Gln Val Gln Ser Pro Arg Arg
1 5 10 15

Ala Gly Pro Ile Thr Gly Pro Leu Pro Leu Pro Leu Leu Leu Leu Leu
20 25 30

Pro Phe Gly Pro Pro Pro Pro Ala Lys Pro Ala Pro Glu Ala Ala Leu
35 40 45

Pro Ser Ala Ala Thr Arg Gly Arg Ala Gly Ala Leu Arg Ala Leu Glu
50 55 60

Pro Ala Asp Pro Ala Ser Val Ser Trp Glu Gly Pro Ala Pro Ala Gln
65 70 75 80

Ser Thr His Gly Asn Lys Gly Gln Ala Ala Thr Val Lys Lys Lys Xaa
85 90 95

Lys Lys Lys Arg Ala Ala Ala Xaa Lys
100 105

<210> 232
<211> 9
<212> PRT
<213> Homo sapiens

<400> 232
Met Ser Leu Gln Ser Arg Gly Ser Asn
1 5

<210> 233
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 233
Met Gly Phe Ser Xaa Val Gly Cys Gly Arg Gly Asp Asp Ala Leu Phe
1 5 10 15

Leu Ile Phe Asp Leu Phe Phe Gln Leu Asp Phe Phe Pro Gly Leu Phe
20 25 30

Leu Gly Pro Ala Ala Phe Val Ile Pro Arg Pro Gly Pro Arg Pro Xaa
35 40 45

Thr Ser Ser Ala Gly Ala Pro Pro Ala Val Gly Ser Gly Cys Asp Arg
50 55 60

Ala Glu Val Leu Ser Gly Thr Leu Gly Ser Gln Pro Gly Asp Ser Glu
65 70 75 80

Pro Arg Gly Arg

<210> 234

<211> 20
<212> PRT
<213> Homo sapiens

<400> 234
Met Lys Leu Ser Val Pro Leu Leu Ile Val Pro Leu Leu Met Trp Asn
1 5 10 15

Ser Asn Trp Ile
20

<210> 235
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 235
Met Arg Thr Pro Pro Ser Pro Gly Pro Arg Thr His Leu Val Leu Val
1 5 10 15

Leu Leu Gln Pro Leu Ser Gln Arg Gly Gln His Asp Leu Gly Gly Arg
20 25 30

Xaa Xaa Xaa Val Ala
35

<210> 236
<211> 56
<212> PRT
<213> Homo sapiens

<400> 236
Met Val Ala Val Thr Leu Val Leu Gly Ala Gly Asp Phe Ala Leu Thr
1 5 10 15

Leu Gly Gly Phe Thr Leu Gly Gly Ile Gly Thr Ala Thr Phe Gly Ala
20 25 30

Ile Leu Leu Asn Ala Leu Leu Ser Arg Lys Leu Val Asp Val Pro Pro
35 40 45

Pro Glu Val Val His Gln Glu Pro
50 55

<210> 237
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 237
Met Pro Tyr Asn Ile Gly Tyr Xaa Thr Phe Tyr Phe Ile Leu Phe Tyr
1 5 10 15

Phe Ile Leu Phe Tyr Leu Glu Thr Arg Ser Cys Ser Val Thr Gln Ala
20 25 30

Arg Gly

<210> 238
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 238
Gly Arg Gly Leu Ser Ser Leu Thr Pro Tyr Ile Val Leu Cys Val Phe
1 5 10 15

Ile Met Leu Ser Cys Glu Thr Asp Ser Leu Xaa Val Trp Arg Ser Ile
20 25 30

Gln Val Met Ile Pro Gly Arg Ala Arg Trp Leu Thr Pro Val Ile Pro
35 40 45

Lys Cys Trp Asp Arg Arg Arg Glu Ser Pro Arg Pro Val Lys Thr Val
50 55 60

Leu Leu Lys Gly Cys Leu Pro Ser Gly Gly Cys Gln Ser Pro Gly Thr
65 70 75 80

Pro Pro Gly Val Ser Ala Phe Ile Pro Ser Cys Gly Arg Lys Cys Ser
85 90 95

Val Arg Asn Arg Ile Leu Xaa Val Arg Leu Ser Ala Gly Tyr Arg Met
100 105 110

Gly

<210> 239
<211> 82
<212> PRT
<213> Homo sapiens

<400> 239
Met Glu Asp Thr Asp Asp Ser Leu Val Leu Val Phe Leu Ser Ala Val
1 5 10 15

Asn Val Gln Gln Phe Ala Gln Glu Leu Gly Asp His Ile Cys Leu Ser
20 25 30

Gly Gln Gly Ser Glu Val His Trp Asn Leu Leu Arg Asn Leu Phe Val
35 40 45

Lys Thr Ile Val Asn Asn Tyr Cys Ile Phe Leu Gln Lys Tyr Ile Leu
50 55 60

Glu Asn Cys Ile Leu Ser Ile Lys Val Phe Leu Cys Lys Lys Lys Lys
65 70 75 80

Lys Lys

<210> 240
<211> 92
<212> PRT
<213> Homo sapiens

<400> 240
Pro Asn Leu Leu Phe Gln Thr Leu Leu Leu His Pro Phe Ser Thr Ile
1 5 10 15

Ile Ser Thr Ser His Thr Val Leu Leu Asp Ile His Lys Glu Gln His
20 25 30

Ala Phe Leu Cys Leu Gly His Asp Ile Phe Ser Ser Met His Leu Leu
35 40 45

Phe Asn Ser Leu Phe Cys Leu Ile Ser Lys Cys Leu Leu Ile Ala Cys
50 55 60

Asn Met Pro Cys Pro Val Leu Gly Ser Glu Ser Ile Lys Ile Asn Lys
65 70 75 80

Gln Asp Pro Asp Met Gln Gly Asp His Asn Leu Val
85 90

<210> 241
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 241
Met Ala Ile Arg Cys Cys Ser Ser Thr Ser Asn Ala Leu Ile Leu Ile
1 5 10 15

Leu Phe Thr Trp Thr Val Leu Leu His His Pro Arg Ser Ser Ser Phe
20 25 30

Leu Pro Ser Phe Lys Lys Pro Ser Trp Thr Ser Pro Leu Gly Tyr Ala
35 40 45

Ile Ile Ala Thr Pro Cys Asn Ser Leu Ser Xaa His Leu Ser Cys Tyr
50 55 60

Ile Glu Leu Ser Val Ser Leu Thr Glu Cys Glu Pro Ala Leu Lys Leu

65 70 75 80

Glu Val Arg Leu Gln Ala Gly Gly Ile Val Leu Gly
85 90

<210> 242
<211> 28
<212> PRT
<213> Homo sapiens

<400> 242
Met Leu Ile Phe Ile Leu Leu Ala Thr Asn Leu Phe Val Ser Ser Leu
1 5 10 15

Phe Glu Ile Leu Met Tyr Arg Ser Phe Gln Asn Asn
20 25

<210> 243
<211> 32
<212> PRT
<213> Homo sapiens

<400> 243
Met Leu Gly Phe Phe Ser Pro Ile Phe Pro His Leu His Leu Phe Phe
1 5 10 15

Pro Thr Ala Tyr Ser Trp Arg Glu Arg Ser Arg Gln Glu Phe Ala Ile
20 25 30

<210> 244
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (30)
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<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 244
Met Leu Phe Leu Val Phe Ser Leu Xaa Leu Leu Lys Pro Leu Xaa Phe
1 5 10 15

Phe Xaa Phe Gly Gly Xaa Arg Ile Val Asn Ile Xaa Xaa Xaa Gln Xaa
20 25 30

Gln His His Ala Glu Gly Lys Xaa Gly Ser
35 40

<210> 245
<211> 27
<212> PRT
<213> Homo sapiens

<400> 245
Met Leu Thr Gln Asn Gly Leu Phe Val Phe Phe Phe Phe Phe Gly Phe
1 5 10 15

Gln Ser Ser Cys Lys His Ala Lys Lys Lys Lys
20 25

<210> 246
<211> 123
<212> PRT
<213> Homo sapiens

<400> 246
Met Gly Gly Tyr Tyr Cys Asn Val Cys Asp Cys Val Val Lys Asp Ser
1 5 10 15

Ile Asn Phe Leu Asp His Ile Asn Gly Lys Lys His Gln Arg Asn Leu
20 25 30

Gly Met Ser Met Arg Val Glu Arg Ser Thr Leu Asp Gln Val Lys Lys
35 40 45

Arg Phe Glu Val Asn Lys Lys Lys Met Glu Glu Lys Gln Lys Asp Tyr
50 55 60

Asp Phe Glu Glu Arg Met Lys Glu Leu Arg Glu Glu Glu Glu Lys Ala
65 70 75 80

Lys Ala Tyr Lys Lys Glu Lys Gln Lys Glu Lys Lys Arg Arg Ala Glu
85 90 95

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Glu Asp Leu Thr Phe Glu Glu Asp Asp Glu Met Ala Ala Val Met Gly
            100                 105                 110

Phe Ser Gly Phe Gly Ser Thr Lys Lys Ser Tyr
        115                 120
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<210> 247
<211> 26
<212> PRT
<213> Homo sapiens

<400> 247
Met Arg His Arg Ala Arg Arg Phe Phe Phe Phe Phe Phe Leu Ser Gly
 1 5 10 15

Ile Trp Ala Gly His Gly Gly Ser Cys Leu
 20 25

<210> 248
<211> 40
<212> PRT
<213> Homo sapiens

<400> 248
Met Phe Pro Arg Val Glu Phe Phe Phe Leu Leu Arg Thr Ser Val Ala
 1 5 10 15

Leu Pro Ala Leu Ala Leu Ser Gly Lys Asp Ser Arg Gly Asp Thr Ala
 20 25 30

Val Pro Gly Cys Asp Asn Val Gln
 35 40

<210> 249
<211> 42
<212> PRT
<213> Homo sapiens

<400> 249
Met Arg Val Ala Phe Ile Leu Phe Phe Phe Phe Lys Leu Thr Pro Ser
 1 5 10 15

Phe Thr Pro Ser Ser Ile Ser Gly Tyr Arg Ile Arg Asp Ala Ala Val
 20 25 30

Thr Asn Gly Ile Leu Thr Cys Lys Ile Val
 35 40

<210> 250
<211> 31
<212> PRT
<213> Homo sapiens

<400> 250
Met Val Leu Ser Ala Cys Pro Asn Tyr Val Leu Pro Leu Pro Phe Leu
 1 5 10 15

Leu Ile Thr Leu Lys Cys Asp Gly Thr Thr Thr Glu Ala Val Cys
 20 25 30

<210> 251
<211> 55
<212> PRT
<213> Homo sapiens

<400> 251
Met Pro Thr Phe Pro Lys Ser Gln Asn Val Leu Pro Phe Leu Ser Met
1 5 10 15

Leu Leu Ser Ala Thr Leu Trp Ser Gln Ser Pro Leu Cys Asp Thr Leu
20 25 30

Ile Lys Asp Lys Ala Lys Ser Gln Ser Asp Lys Arg Thr Arg Asp Glu
35 40 45

Lys Leu Gly Lys Ile Glu Phe
50 55

<210> 252
<211> 48
<212> PRT
<213> Homo sapiens

<400> 252
Met Phe Leu Ile Leu Val Ala Phe Ile Ser Gly Val Ser Pro Ser Phe
1 5 10 15

Val His Ile Ser Val Ser Gly Leu His Cys Lys Ile Ser Leu Thr Ile
20 25 30

Val Ala Phe Pro Phe Ser Thr Ala Gln Tyr Lys Ala Val Leu Leu Ser
35 40 45

<210> 253
<211> 72
<212> PRT
<213> Homo sapiens

<400> 253
Met Leu Trp Met Thr Ser Glu Tyr Met Asn Leu Leu Leu Phe Gln Met
1 5 10 15

Phe Leu Val Phe Pro Gly Ser Gln Ala Gly Leu Phe Gln Pro Leu Ile
20 25 30

Val Tyr Arg Gly Lys Ile Cys Thr Val Gln Cys Met Lys Leu Phe Ser
35 40 45

Thr Ser Leu Pro Ser Ser Lys Thr Ile Gln Ser Glu Leu Ser Trp Ala
50 55 60

Lys Gln Tyr Ile Arg Val Lys Phe
65 70

<210> 254
<211> 342
<212> PRT
<213> Homo sapiens

<400> 254

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Met Ala Arg Ala Leu Leu Asp His Phe Leu Gly Phe Ser Gln Pro Asp
 1               5                  10                  15

Ser Ser Val Thr Pro Cys Val Pro Ala Val Ser Met Asn Arg Asp Glu
            20                  25                  30

Gln Asp Val Leu Leu Val His His Pro Asp Met Pro Glu Asn Ser Arg
        35                  40                  45

Val Leu Arg Val Val Leu Leu Gly Ala Pro Asn Ala Gly Lys Ser Thr
    50                  55                  60

Leu Ser Asn Gln Leu Leu Gly Arg Lys Val Phe Pro Val Ser Arg Lys
65                  70                  75                  80

Val His Thr Thr Arg Cys Gln Ala Leu Gly Val Ile Thr Glu Lys Glu
                85                  90                  95

Thr Gln Val Ile Leu Leu Asp Thr Pro Gly Ile Ile Ser Pro Gly Lys
            100                 105                 110

Gln Lys Arg His His Leu Glu Leu Ser Leu Leu Glu Asp Pro Trp Lys
        115                 120                 125

Ser Met Glu Ser Ala Asp Leu Val Val Val Leu Val Asp Val Ser Asp
    130                 135                 140

Lys Trp Thr Arg Asn Gln Leu Ser Pro Gln Leu Leu Arg Cys Leu Thr
145                 150                 155                 160

Lys Tyr Ser Gln Ile Pro Ser Val Leu Val Met Asn Lys Val Asp Cys
                165                 170                 175

Leu Lys Gln Lys Ser Val Leu Leu Glu Leu Thr Ala Ala Leu Thr Glu
            180                 185                 190

Gly Val Val Asn Gly Lys Lys Leu Lys Met Arg Gln Ala Phe His Ser
        195                 200                 205

His Pro Gly Thr His Cys Pro Ser Pro Ala Val Lys Asp Pro Asn Thr
    210                 215                 220

Gln Ser Val Gly Asn Pro Gln Arg Ile Gly Trp Pro His Phe Lys Glu
225                 230                 235                 240

Ile Phe Met Leu Ser Ala Leu Ser Gln Glu Asp Val Lys Thr Leu Lys
                245                 250                 255

Gln Tyr Leu Leu Thr Gln Ala Gln Pro Gly Pro Trp Glu Tyr His Ser
            260                 265                 270

Ala Val Leu Thr Ser Gln Thr Pro Glu Glu Ile Cys Ala Asn Ile Ile
        275                 280                 285

Arg Glu Lys Leu Leu Glu His Leu Pro Gln Glu Val Pro Tyr Asn Val
    290                 295                 300

Gln Gln Lys Thr Ala Val Trp Glu Glu Gly Pro Gly Gly Glu Leu Val
305                 310                 315                 320

Ile Gln Gln Lys Leu Leu Val Pro Lys Glu Ser Tyr Val Lys Leu Leu
                325                 330                 335

Ile Gly Pro Lys Ala Thr
            340
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Replacement Sheet

<210> 255
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 255
Met Gly Trp Val Asn Gln Arg Ile Phe Leu Phe Leu Phe Phe Leu Ser
1 5 10 15

Gln Gly Leu Ala Leu Ser Pro Arg Xaa Glu Arg Thr Gly Val Ile Xaa
20 25 30

Ala His Cys Ser Leu Asp Leu Pro Gly Ser Ser Asn Xaa Pro Ser Ser
35 40 45

Ala Ser
50

<210> 256
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 256
Met Gln Gln Phe Leu Phe Phe Phe Leu Phe Leu Glu Met Glu Ser Arg
1 5 10 15

Pro Phe Ala Arg Ala Gly Val Gln Trp Cys Asp Leu Gly Pro Leu His
20 25 30

Ser Xaa Leu Xaa Glu
35

<210> 257
<211> 53
<212> PRT
<213> Homo sapiens

<400> 257
Met Cys Leu Ser Leu Thr Ser Ile His Ile His Pro Thr Ser Leu Leu
1 5 10 15

Leu Gln Ser Phe Ile Val Ile Phe Ser Leu Met Leu Glu Ser Phe Ala
20 25 30

Phe Ser Ser Cys Ser His Cys Leu Lys Phe Cys Glu Leu Leu Arg Lys
35 40 45

Ser Leu Val Lys Val
50

<210> 258
<211> 188
<212> PRT
<213> Homo sapiens

<400> 258
Val Leu Gly Ala Ala His Pro Val Pro Pro Gly Leu Pro Leu Phe Leu
1 5 10 15

Pro Tyr Tyr Ile Cys Val Ala Asp Glu Asp Asp Tyr Arg Asp Phe Val
20 25 30

Asn Leu Asp His Ala His Ser Leu Leu Arg Asp Tyr Gln Gln Arg Glu
35 40 45

Gly Ile Ala Met Asp Gln Leu Leu Ser Gln Ser Leu Pro Asn Asp Gly
50 55 60

Asp Glu Lys Tyr Glu Lys Thr Ile Ile Lys Ser Gly Asp Gln Thr Phe
65 70 75 80

Tyr Lys Phe Met Lys Arg Ile Ala Ala Cys Gln Glu Gln Ile Leu Arg
85 90 95

Tyr Ser Trp Ser Gly Glu Pro Leu Phe Leu Thr Cys Pro Thr Ser Glu
100 105 110

Val Thr Glu Leu Pro Ala Cys Ser Gln Cys Gly Gly Gln Arg Ile Phe
115 120 125

Glu Phe Gln Leu Met Pro Ala Leu Val Ser Met Leu Lys Ser Ala Asn
130 135 140

Leu Gly Leu Ser Val Glu Phe Gly Thr Ile Leu Val Tyr Thr Cys Glu
145 150 155 160

Lys Ser Cys Trp Pro Pro Asn His Gln Thr Pro Met Glu Glu Phe Cys
165 170 175

Ile Ile Gln Glu Asp Pro Asp Glu Leu Leu Phe Lys
180 185

<210> 259
<211> 45
<212> PRT
<213> Homo sapiens

<400> 259
Met Lys Lys Ile Ile Glu Thr Val Ala Glu Gly Gly Gly Glu Leu Gly
1 5 10 15

Val His Met Tyr Leu Leu Ile Phe Leu Lys Phe Val Gln Ala Val Ile
20 25 30

Pro Thr Ile Glu Tyr Asp Tyr Thr Arg His Phe Thr Met
35 40 45

<210> 260
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 260
Met Pro Ile Cys Glu His Phe Ile Trp Pro Leu Leu Ala Phe Ile Pro
1 5 10 15

Gln Xaa Leu Ser Ser Gly Leu Arg Val Phe Leu Ser Phe Thr Gln Gln
20 25 30

Asn His Gln Glu Arg Asp Phe Lys Arg Asp Tyr Gln Ala
35 40 45

<210> 261
<211> 16
<212> PRT
<213> Homo sapiens

<400> 261
Met Ser His Arg Ala Arg Pro Met Ile Leu Phe Phe Phe Phe Phe Phe
1 5 10 15

<210> 262
<211> 18
<212> PRT
<213> Homo sapiens

<400> 262
Met Leu Thr Leu Val Ser Phe Val Phe Leu Leu Leu Leu Leu Glu Ser
1 5 10 15

Met Ile

<210> 263
<211> 4
<212> PRT
<213> Homo sapiens

<400> 263
Met Leu Lys Ser
1

<210> 264
<211> 97

<212> PRT
<213> Homo sapiens

<400> 264
Met Tyr His His Asp Trp Leu Ile Phe Val Phe Leu Val Lys Thr Gly
1 5 10 15

Phe His His Val Gly Gln Ala Gly Leu Glu Phe Leu Thr Ser Ser Asp
20 25 30

Pro Pro Ala Phe Gly Leu Pro Lys Cys Trp Asp Tyr Lys Arg Glu Pro
35 40 45

Pro Arg Pro Ala Arg Met Leu Val Phe Leu Leu Ser Cys Arg Asn Ser
50 55 60

Phe Tyr Ile Pro Asp Ala Asn Ser Phe Ser Asn Ile Cys Phe Ala Asn
65 70 75 80

Ser Ser Phe Gln Ser Ile Ala Gly Leu Cys Met Val Phe Phe Phe Phe
85 90 95

Phe

<210> 265
<211> 49
<212> PRT
<213> Homo sapiens

<400> 265
Met Ala Ala Leu Leu Leu Thr Leu Ile Leu Gly Thr Leu His Gln Gln
1 5 10 15

Lys Gly Leu His Val Gln Ser Pro Ile Pro Ser Pro Ser Gly Arg Lys
20 25 30

His Ile Leu Arg Met Ala Thr Leu Arg Leu Arg Glu Val Lys Val Pro
35 40 45

Ala

<210> 266
<211> 43
<212> PRT
<213> Homo sapiens

<400> 266
Met Leu Ser Phe Gln Lys Ala Ile Leu Phe Leu Ala Met Gly Cys Leu
1 5 10 15

Pro Cys Ile Pro Gln Gly Leu Ser Cys Ala Phe His Pro Ala Ser Phe
20 25 30

His Lys Ala Leu Ser Gly Cys Arg Thr Leu Ile
35 40

<210> 267
<211> 43
<212> PRT
<213> Homo sapiens

<400> 267
Met Gly Lys Lys Ser Ser Thr Ser Phe Tyr Leu Leu Leu Leu Cys Val
1 5 10 15

Leu Lys Thr Ala Leu Leu Lys Cys Ile His Gln Pro Gly Gln Gly Gly
20 25 30

Lys Thr Pro Ser Leu Gln Asn Ile Phe Lys Asn
35 40

<210> 268
<211> 18
<212> PRT
<213> Homo sapiens

<400> 268
Leu Val Leu Gln Leu Leu Leu Leu Gln Gln Ala Ala Gln Ala Asn Arg
1 5 10 15

Leu Leu

<210> 269
<211> 20
<212> PRT
<213> Homo sapiens

<400> 269
Met Ala Cys Cys Asn Pro Tyr Lys Tyr Tyr Phe Tyr Leu Ser Cys Ser
1 5 10 15

Val Cys Phe Leu
20

<210> 270
<211> 25
<212> PRT
<213> Homo sapiens

<400> 270
Met His Lys Ile Gly His Cys Phe Met Ser Leu Phe Ser Ile Lys Lys
1 5 10 15

His Thr Tyr Asp Asp Cys Lys Met Lys
20 25

<210> 271
<211> 148
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 271
Met Gly Leu Phe Gly Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val
1 5 10 15

Asn Glu Trp Ser Leu Lys Ile Arg Lys Glu Met Arg Val Val Asp Arg
20 25 30

Gln Ile Arg Asp Ile Gln Arg Glu Glu Glu Lys Val Lys Arg Xaa Cys
35 40 45

Glu Arg Cys Cys Gln Glu Gly Pro Glu Gly Cys Leu His Ser Ser Gly
50 55 60

Gln Gly Asp Asp Gln Val Lys Glu Gly Cys Glu Gln Ala Val Cys Ile
65 70 75 80

Gln Ser Thr His Glu Leu Ser Ala His Gly Asp Glu Glu Pro Ala Arg
85 90 95

Gly Leu Ala Ser Gly Trp Phe Pro Ala Glu Glu His Arg Ser Asp Glu
100 105 110

Gly His Ala Lys Ser Cys Glu Asp Ser Arg Asp Ser Gly His His Glu
115 120 125

Gly Val Val Gln Arg Asn Asp Glu Gly Trp Asp His Arg Gly Asp Val
130 135 140

Arg Gly His Phe
145

<210> 272
<211> 21
<212> PRT
<213> Homo sapiens

<400> 272
Met Leu Leu Ser Asn Leu Val Val Ser Ala Leu Tyr Asn Pro Val Leu
1 5 10 15

Gly Leu Ser Cys Phe
20

<210> 273
<211> 34
<212> PRT
<213> Homo sapiens

<400> 273
Met Thr Leu Tyr Leu Cys Leu Leu Phe Pro Tyr Phe Thr Phe Phe Pro
1 5 10 15

Leu Ser Ala Leu Leu Pro Arg Asp Cys Thr Pro Gln Gln Ile Ile Asn
20 25 30

Tyr His

<210> 274
<211> 40
<212> PRT
<213> Homo sapiens

<400> 274
Met Ser Pro Phe Asn Cys Cys Pro Phe Asn Tyr Thr Leu Ile Tyr Ile
1 5 10 15

Ile Leu Leu Met Leu Ile Tyr Val Tyr Ile Ser Ser Val His Ser Leu
20 25 30

Val Asp Ser Asp Leu Leu Asn Gly
35 40

<210> 275
<211> 25
<212> PRT
<213> Homo sapiens

<400> 275
Met Phe Val Leu Leu Leu Ser His Asp Phe Phe Phe Leu Cys Gln Thr
1 5 10 15

Tyr Lys Leu Asn Leu Val Val Met Phe
20 25

<210> 276
<211> 43
<212> PRT
<213> Homo sapiens

<400> 276
Met Ala Val Lys Leu Gln Leu Leu Ile Pro Val Lys Leu Ile Val Thr
1 5 10 15

Val Thr Glu Ser Gln Gly Ile Gln Gly Trp Phe Arg His His Tyr Cys
20 25 30

Glu Gln Gln Ser Thr Phe Leu Val Val Cys Leu
35 40

<210> 277
<211> 43
<212> PRT
<213> Homo sapiens

<400> 277
Lys Gly Lys Ile His Phe Leu Phe Val Leu Phe Leu Thr Asp Leu Thr
1 5 10 15

Ile Thr Phe Phe Lys Ile Val Ile Thr Thr Met His Ser Ile Arg Tyr
20 25 30

Lys Cys Ile Leu Phe Cys Met Phe Met His Lys
35 40

<210> 278
<211> 41
<212> PRT
<213> Homo sapiens

<400> 278
Met Pro Ile Leu Leu Leu Asn Leu Ala Phe Thr Asn Ser His Leu Glu
1 5 10 15

Ala Gln Gln Val His Lys Pro Tyr Phe Gly Tyr Arg Gly Asn His Cys
20 25 30

His Pro Ser Pro Met Trp Cys Ala Gln
35 40

<210> 279
<211> 64
<212> PRT
<213> Homo sapiens

<400> 279
Met Thr Gly Thr Cys His His Ser Leu Phe Ser Phe Leu Ile Phe Ser
1 5 10 15

Phe Phe Leu Ala Ile Gly Ser Pro Phe Val Ala Gln Val Gly Leu Glu
20 25 30

Leu Leu Gly Ser Asn Asp Pro Leu Ala Ser Ala Ser Gln Ser Val Arg
35 40 45

Ile Thr Gly Met Ser Tyr Cys Ala Trp Pro Lys Ser Tyr Ser Tyr His
50 55 60

<210> 280
<211> 62
<212> PRT
<213> Homo sapiens

<400> 280
Met Val Ser Ser Cys Trp Pro Gly Trp Ser Pro Ser Leu Asp Leu Val
1 5 10 15

Ile Leu Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser Phe Glu Leu Arg
20 25 30

Ser Ser Arg Pro Pro Ser Gln His Asn Glu Ser Thr Leu Glu Ala Arg
35 40 45

Ser Gly Trp Ile Thr Arg Ser Gly Asp Arg Asp His Pro Gly
50 55 60

<210> 281
<211> 33
<212> PRT
<213> Homo sapiens

<400> 281
Met Lys Val Asn Leu Asn Ile Asn Leu Leu Ile Ile Lys Ser Leu Ser
1 5 10 15

Ala Ser Ala Gly Ala Met Asn Ser Glu Trp Glu Ile Ala Ser Gly Glu
20 25 30

Trp

<210> 282
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 282
Met Asn His Pro Pro Glu Gly Ser Thr Val Val Phe Phe Xaa Leu Phe
1 5 10 15

Phe Phe Phe Glu Thr Val Leu Leu Cys Cys Pro Gly Trp Ser Ala Val
20 25 30

Val Gln Ser Arg Leu Ala Ala Thr Ser Ala Ser Trp Phe Lys Arg Phe
35 40 45

Ser Phe Leu Ser Leu Leu Ser Ser Trp Glu Tyr Gly Cys Ala Pro Pro
50 55 60

Arg Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys
65 70 75 80

Trp Pro Gly Trp Ser Arg Met Pro Asp Leu Val Val His Pro Xaa Arg
85 90 95

Pro Pro Lys Val Leu Gly Leu Gln Val Cys Ala Ala Ala Pro Gly Gln
100 105 110

Ala Phe Phe Ser Leu Gly Leu Leu Trp Pro Pro Arg Leu Gly Thr Arg
115 120 125

Gly Pro Pro Gly Thr Gly Ile Pro Ser Cys Thr Leu Ile His Gly Ala
130 135 140

Leu Xaa Glu Met Gln Val Leu Gln Gly Thr Gly Phe His Xaa Phe Trp
145 150 155 160

Gly Asp Gln Pro Ser Ser Pro Arg Ile Pro
165 170

<210> 283
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 283
Met Leu Leu Xaa Pro Asp Val Ala Asp Xaa Pro Cys Gly Xaa Lys Arg
1 5 10 15

Lys Pro Xaa Leu Leu Met Leu Ile Ile Pro Leu Ser Ser Gln Pro Leu
20 25 30

Tyr Ile Lys Ala Ser Gly Thr Lys Arg
35 40

<210> 284
<211> 50
<212> PRT
<213> Homo sapiens

<400> 284
Gly Arg Ile Arg Phe Tyr Ala Phe Phe Val Phe Cys Phe Val Leu Arg
1 5 10 15

Gln Ser Leu Thr Leu Ser Pro Arg Leu Glu Tyr Ser Gly Met Ile Ser
20 25 30

Ala His Cys Ser Leu Cys Leu Pro Gly Ser Ser Asp Ser Leu Ala Ser
35 40 45

Ala Ser
50

<210> 285
<211> 30
<212> PRT
<213> Homo sapiens

<400> 285
Met Lys Trp Cys His Phe Leu Leu Ile Val Phe Leu Ser Pro Phe Ile
1 5 10 15

Phe Cys Leu Phe Gln Gly Cys Phe Phe Phe Pro Ile Ser Lys
20 25 30

<210> 286
<211> 7
<212> PRT
<213> Homo sapiens

<400> 286
Met Gln His Gln Gln Met Gln
1 5

<210> 287
<211> 83
<212> PRT

<213> Homo sapiens

<400> 287
Met Gly Gln Cys Pro Gly Ser Arg Val Leu Pro Gln Leu Met Gln Leu
1 5 10 15

Trp Leu Leu Leu Cys Ala Gln Ile Met Cys Leu Glu Ala Phe Leu Gln
20 25 30

Gln Gly Ser Val Arg Lys Trp Lys Ser Gly Val Ser Ser Phe Pro Gly
35 40 45

Glu Ser Leu Ala Glu Gln Leu Thr Leu Ser Lys His Cys Arg Trp Pro
50 55 60

Leu Phe Leu Pro Gly Ser Ser Ser Trp Glu Leu Ser Ala Pro Gly Lys
65 70 75 80

Phe Trp Gln

<210> 288
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 288
Met Lys Arg Tyr Asn Ser Leu Gln Arg Thr Gln Leu Val Leu Leu Ala
1 5 10 15

Leu Arg Xaa Xaa Thr Val Ser Ala Ser Ser Ser Cys Ser Leu Ser Ser
20 25 30

<210> 289
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 289
Met Arg Tyr Asn Glu Lys Glu Leu Gln Ala Leu Ser Arg Gln Pro Ala
1 5 10 15

Glu Met Ala Ala Glu Leu Gly Met Arg Gly Pro Lys Lys Gly Xaa Asp
20 25 30

Glu Ala Glu Pro Val Gly Ala Leu Leu Leu Glu Arg Cys Arg Val Val

35 40 45

Arg Glu Glu Pro Gly Thr Phe Ser Ile Ser Phe Ile Glu Asp Pro Glu
50 55 60

Arg Lys Tyr His Phe Glu Cys Ser Ser Glu Glu Gln Cys Gln Glu Trp
65 70 75 80

Met Glu Ala Leu Arg Arg Ala Ser Tyr Glu Phe Met Arg Arg Ser Leu
85 90 95

Ile Phe Tyr Arg Asn Glu Ile Arg Lys Val Thr Gly Lys Asp Pro Leu
100 105 110

Glu Gln Phe Gly Ile Ser Glu Glu Ala Arg Phe Gln Leu Ser Gly Leu
115 120 125

Gln Ala
130

<210> 290
<211> 39
<212> PRT
<213> Homo sapiens

<400> 290
Gly Ser Arg Trp Ala Ala Leu Gln Ala Gly Pro Leu Trp Pro Ser Ile
1 5 10 15

Gly Phe Val Val Asn Met Leu Cys Gly Val Thr Thr Ser Asn Gly Gly
20 25 30

Pro Asn Thr Tyr Ile His Leu
35

<210> 291
<211> 7
<212> PRT
<213> Homo sapiens

<400> 291
Ile Phe Ile Tyr Leu Leu Met
1 5

<210> 292
<211> 42
<212> PRT
<213> Homo sapiens

<400> 292
Met Lys Ala Leu Arg Leu Ser Ala Ser Ala Leu Phe Cys Leu Leu Leu
1 5 10 15

Ile Asn Gly Leu Gly Ala Ala Pro Pro Gly Arg Pro Glu Ala Gln Leu
20 25 30

Leu Leu Ser Ala Leu Ser Ile Lys Ser Arg
35 40

<210> 293
<211> 41
<212> PRT

<213> Homo sapiens

<400> 293
Met Arg Gly Lys Phe Pro His Asp Leu Leu Cys Phe Leu Ile Lys Leu
1 5 10 15

Leu Cys Pro Thr Ile Ala Gly Ser Ala Tyr Gly Cys Cys Asn Val Gly
20 25 30

Ser Ala Val Ser Cys Ser Tyr His Phe
35 40

<210> 294
<211> 21
<212> PRT
<213> Homo sapiens

<400> 294
Phe Ile Pro Asp Lys Arg Arg Pro Thr Leu Met Leu Gly Ile Leu Pro
1 5 10 15

Ser Leu Pro Val Pro
20

<210> 295
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 295
Met Xaa Phe Phe Ala Val Leu Ser Ser Phe Pro Ser Arg Gly Lys Arg
1 5 10 15

Ala Glu Ala Gln Gln Ser Leu Val Cys Trp Arg Asn Arg Arg Val Val
20 25 30

Gly Gly Leu Glu Ala Arg Ala Val Lys
35 40

<210> 296
<211> 49
<212> PRT
<213> Homo sapiens

<400> 296
Met Cys His Leu Cys Val His Val Gly Leu Leu Val Ser Leu Phe Pro
1 5 10 15

Ser Gln Ala Ala Gly Phe Val Trp Met Arg Met Ala Pro Phe Leu Phe
20 25 30

Thr Asp Arg Tyr Ser Val Pro Ser Thr Val Pro Gly Thr Gln Glu Val
35 40 45

Leu

<210> 297
<211> 20
<212> PRT
<213> Homo sapiens

<400> 297
Gly Asp Trp Ala Phe Leu Phe Trp Met Trp Leu Ala Gly Ala Ala Leu
1 5 10 15

Gly Ser Pro Ala
20

<210> 298
<211> 65
<212> PRT
<213> Homo sapiens

<400> 298
Met Gly Ala Gln Gly Gly Pro Pro Glu Glu Pro Leu Phe Tyr Val Ala
1 5 10 15

Leu Val Val Phe His Gly Trp Cys Ser Gly Ser Pro Tyr Gln Glu Glu
20 25 30

Ala Pro Pro Cys Glu Gly Gly Gly Pro Glu Gly Gly Pro Arg Lys Pro
35 40 45

Asp Gln Glu Pro Gly Asn Gln Val Gln Asp Leu Pro Gly His Ala Arg
50 55 60

Val
65

<210> 299
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 299
Met Val Leu His Cys Ile Ala Trp Leu Gln Xaa Gly Ile Ser Phe Leu
1 5 10 15

Phe Leu Phe Leu Cys Val Ile Ala Ile Gly Ala Thr Asn Phe Ala Ser
20 25 30

Pro Xaa Phe Tyr Lys Leu Val Ser Ser Gly Val Ala
35 40

<210> 300
<211> 56
<212> PRT
<213> Homo sapiens

<400> 300
Met Gly Ile Gln Leu Ala Leu Ala Pro Ala Leu Ser Trp Gly Cys Ser
1 5 10 15

Ser Ala Ser Cys Pro Val Cys Cys Gly Lys Thr Glu Pro Leu Val Arg
20 25 30

Leu Ala Arg Arg Arg Arg Ser Arg Arg Gln Ala Ala Gln Ile Trp Glu
35 40 45

Leu Ser Ala Ile Val Pro Ser Val
50 55

<210> 301
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 301
Met Pro His Leu Phe Phe Leu Phe Leu Ser Thr Asn His Phe Leu Leu
1 5 10 15

Ser Thr Pro Tyr Leu Ile Ser Leu Ile Thr Gly Pro Pro Asn Ser Xaa
20 25 30

Leu Arg Gln His
35

<210> 302
<211> 44
<212> PRT
<213> Homo sapiens

<400> 302
Met Leu Tyr Ile Phe Ile Phe Val Leu Phe Leu Gly Lys Asn Thr Gln
1 5 10 15

Lys Ala Lys His Pro Gln Met Val Leu Leu Tyr Ser Ala Glu Gly Asn
20 25 30

Phe Lys Phe Gln Ile Arg Val Thr Asn Ala Ala Leu
35 40

<210> 303
<211> 100
<212> PRT
<213> Homo sapiens

<400> 303
Met Gly Ser Leu Ser Gly His Ala Tyr Ser Cys Leu Leu Val Phe Leu
1 5 10 15

Leu Thr Val Ser Pro Leu Cys Cys Gln Tyr Thr Gly Val Cys Trp Arg
20 25 30

Phe Thr Pro Asp Pro Val Cys Leu Gly Ile Thr Ser Gly Gly Cys Arg
35 40 45

Thr Ala Lys Ile Ala Ala Ser Cys Phe Leu Trp Lys Leu Cys Pro Arg
50 55 60

Gly Ala Pro Ala Arg Cys Gln Pro Glu Leu Ser Cys Arg Arg Cys Leu
65 70 75 80

Ser Ala Ser Thr Gly Arg Cys Leu Pro Val Arg Ile His Arg Gly Gln
85 90 95

Gly Pro Thr Arg
100

<210> 304
<211> 32
<212> PRT
<213> Homo sapiens

<400> 304
Met Cys Leu Phe Leu Trp Phe Leu Tyr Lys Ser Ser Asn Thr Ser Ile
1 5 10 15

Phe Leu Leu Leu Leu Ile Leu Gln Asn Val Glu Gln Phe Ala Glu Tyr
20 25 30

<210> 305
<211> 205
<212> PRT
<213> Homo sapiens

<400> 305
Met Pro Gly His Val Pro Leu Cys Pro Leu Val Leu Gln Val Pro Ser
1 5 10 15

Pro Ala Ser Gly Ala Arg Gln Leu Ala Thr Trp Glu Gly Arg Ser Gln
20 25 30

Glu Phe His Thr Leu Val Leu Arg Pro Glu Pro Ala Leu Arg Leu Pro
35 40 45

Ala Pro Gln Asp Thr Ala Gly Cys Trp Thr Pro Ser Ser Leu Val Cys
50 55 60

Val Cys Val Ala Glu Lys Asp Lys Thr Val Gln Ser Ala Ala Tyr Ser
65 70 75 80

Gln Ser Gly Val Trp Ser Val Cys Leu Leu Leu Cys Gly Ser Ser Arg
85 90 95

Thr Thr Ser Phe Leu Val Leu Phe Gly Phe Trp His Leu Val Phe Leu
100 105 110

Thr Thr Asn Asn Gly Glu Lys Glu Leu Ile Leu Ser Asp Thr Glu Asp
115 120 125

Cys Leu Thr Leu Val Ser Val Arg Ser His Lys Arg Glu Thr Glu Phe
130 135 140

Cys Gly Ser Ala His Arg Thr Asp Pro Gln Pro Arg Gln Arg Val Cys
145 150 155 160

Gly Asp Gly Ala Leu Ser Cys Gln Gly Ala Pro Gly Ala Glu Pro Gly

165 170 175

Pro Gly Glu Leu Ala Trp Ser Pro Gln Asp Ser Ala Ala Trp Thr Val
180 185 190

Thr Leu Ala Leu Phe Leu Leu Gln Ala Arg Asn His Ile
195 200 205

<210> 306
<211> 29
<212> PRT
<213> Homo sapiens

<400> 306
Met Tyr Phe Phe Tyr Leu Thr Val Phe Phe Cys Ser Leu Leu Pro Gln
1 5 10 15

Thr Pro Ala Ser Gly Thr Ile Ser Phe Phe Thr Ser Ser
20 25

<210> 307
<211> 36
<212> PRT
<213> Homo sapiens

<400> 307
Met Arg Ala Leu Pro Ser Gly Cys Leu Pro Thr Leu Cys Ser Cys Gly
1 5 10 15

Leu Ser Leu Val His Gly His Gly Gly Glu Ile Val Gln Thr Leu Trp
20 25 30

Cys Leu Phe Leu
35

<210> 308
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 308
Phe Leu Lys Ser Lys Ala Gly Ala Leu Pro Thr Gly Ser Pro Thr Val
1 5 10 15

Xaa Ile Leu Asn Ile Leu Leu Ser Val Ser Gly Cys Leu Leu Ser Cys
20 25 30

Tyr Arg Gly Ser Asn Cys Leu His Pro Leu Gln Asn Met Gly Ala Pro
35 40 45

Lys Leu Trp Ile Phe Ser His Arg Lys Thr Arg Leu Gly Ala Val Ala
50 55 60

Pro Thr Tyr Asn Pro Ser Thr Leu Gly Gly
65 70

<210> 309

<211> 364
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 309
Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser Leu Ala Gly Asp
1 5 10 15

Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala Val Ser Gly Glu
20 25 30

Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Gln Glu His Lys Thr Lys
35 40 45

Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr Met Glu Glu Glu
50 55 60

Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile
65 70 75 80

Arg Gly Ile Cys Glu Met Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala
85 90 95

Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr
100 105 110

Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe
115 120 125

Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe
130 135 140

Thr Met Leu Glu Lys Ser Pro Leu Pro Ile Val Arg Ser Asn Leu Met
145 150 155 160

Val Ala Thr Gly Asp Leu Ala Ile Arg Phe Pro Asn Leu Val Asp Pro
165 170 175

Trp Thr Pro His Leu Tyr Ala Arg Leu Arg Asp Pro Ala Gln Gln Val
180 185 190

Arg Lys Thr Ala Gly Leu Val Met Thr His Leu Ile Leu Lys Asp Met
195 200 205

Val Lys Val Lys Gly Gln Val Ser Glu Met Ala Val Leu Leu Ile Asp
210 215 220

Pro Glu Pro Gln Ile Ala Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu
225 230 235 240

Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser
245 250 255

Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr
260 265 270

Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu
275 280 285

Ser Leu Val Glu Lys Leu Cys Gln Xaa Phe Arg Thr Ser Arg Thr Glu
290 295 300

Arg His Ser Glu Thr Trp Pro Thr Val Cys His Ser Cys Pro Ser Gln
305 310 315 320

Ser Glu Ala Ser Val Arg Cys Leu Thr Ile Leu Thr Val Leu Glu Thr
325 330 335

Asn Cys Gln Met Ser Pro Ser Ser Val Leu Phe Cys Gln Leu Trp Ala
340 345 350

Ser Cys Asp Val Gly Pro Ser Leu Arg Ala Arg Leu
355 360

<210> 310
<211> 35
<212> PRT
<213> Homo sapiens

<400> 310
Met Lys Leu Glu Asn Tyr Leu Phe Glu Ser Leu Ser Leu Ile Ile Val
1 5 10 15

Val Trp Ser Leu Ser Asn Ser Ser Glu Val Cys Arg Lys Val Lys Gln
20 25 30

Ile Val Gly
35

<210> 311
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 311
Met Ala Tyr Ser Phe His Ala Phe Leu Phe Phe Phe Phe Phe Phe Trp
1 5 10 15

Gly Gly Gly Lys Xaa Xaa Pro
20

<210> 312
<211> 223
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (203)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 312
Met Leu Thr Arg Lys Glu Thr Glu His Val Ser Ala Leu Ile Leu Arg
1 5 10 15

Ala Phe Leu Leu Thr Ile Pro Glu Asn Ala Glu Gly His Ile Ile Leu
20 25 30

Gly Lys Ser Leu Ile Val Pro Leu Lys Gly Gln Arg Val Ile Asp Ser
35 40 45

Thr Val Leu Pro Gly Ile Leu Ile Glu Met Ser Glu Val Gln Leu Met
50 55 60

Arg Leu Leu Pro Ile Lys Lys Ser Thr Ala Leu Lys Val Ala Leu Phe
65 70 75 80

Cys Thr Thr Leu Ser Gly Asp Thr Ser Asp Thr Gly Glu Gly Thr Val
85 90 95

Val Val Ser Tyr Gly Val Ser Leu Glu Asn Ala Val Leu Asp Gln Leu
100 105 110

Leu Asn Leu Gly Arg Gln Leu Ile Ser Asp His Val Asp Leu Val Leu
115 120 125

Cys Gln Lys Val Ile His Pro Ser Leu Lys Gln Phe Leu Asn Met His
130 135 140

Arg Ile Ile Ala Ile Asp Arg Ile Gly Val Thr Leu Met Glu Pro Leu
145 150 155 160

Thr Lys Met Thr Gly Thr Gln Pro Ile Gly Ser Leu Gly Ser Ile Cys
165 170 175

Pro Asn Ser Tyr Gly Ser Val Lys Asp Val Cys Thr Ala Lys Phe Gly
180 185 190

Ser Lys His Phe Phe His Leu Ile Pro Asn Xaa Ala Thr Ile Cys Ser
195 200 205

Leu Leu Leu Cys Asn Arg Asn Glu Gly Val Ser Arg Xaa Leu Xaa
210 215 220

<210> 313
<211> 37
<212> PRT
<213> Homo sapiens

<400> 313
Met Phe Gly Gln Gly Leu Leu Val Leu Leu Gly Phe Trp Val Glu Gly
1 5 10 15

Ala Arg Arg Gly Trp Ser Pro Pro Ile Phe Leu Phe Pro Val His Val
20 25 30

Thr Leu Phe Tyr Arg
35

<210> 314
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 314
Ala Xaa Pro Ser Ser Gly Ala Pro Phe Leu Leu Leu Leu Leu Phe Lys
1 5 10 15

Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp Ile Ser Xaa Asp Trp
20 25 30

Glu Lys Asp Phe Xaa Leu Asp Met Thr Glu Glu Glu Val Gln Met Ala
35 40 45

Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser Gly Pro Gly Gly Ser
50 55 60

Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu Ser Ser Pro Gln Pro
65 70 75 80

Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser Cys Leu Arg
85 90

<210> 315
<211> 58
<212> PRT
<213> Homo sapiens

<400> 315
Met His Gly Asp Ala Gly Pro Leu His Phe Leu Val Ser Leu Ser Phe
1 5 10 15

Ser Ser Cys Ser Ser Pro Tyr Gln Gly Ser Leu Ser Pro Gly Leu Gln
20 25 30

Met Pro Leu Gln Phe Gly Leu Ser Ser Asp Ser Pro Ser Ser Arg Lys
35 40 45

Ala Phe Gln Asp Phe Leu Leu Trp Val Leu
50 55

<210> 316
<211> 248
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 316

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Met Gly Gly Leu Ile Ile Leu Phe Leu Ile Ala Ile Ile Trp Phe Pro
 1               5                  10                  15

Leu Leu Phe Met Ser Leu Val Arg Ser Val Val Gly Val Val Asn Gln
            20                  25                  30

Pro Ile Asp Val Thr Val Thr Leu Lys Leu Gly Gly Tyr Glu Pro Leu
        35                  40                  45

Phe Thr Met Ser Ala Gln Gln Pro Ser Ile Ile Pro Phe Thr Ala Gln
    50                  55                  60

Ala Tyr Glu Glu Leu Ser Arg Gln Phe Asp Pro Gln Pro Leu Ala Met
65                  70                  75                  80

Gln Phe Ile Ser Gln Tyr Ser Pro Glu Asp Ile Val Thr Ala Gln Ile
                85                  90                  95

Glu Gly Ser Ser Gly Ala Leu Trp Arg Ile Ser Pro Pro Ser Arg Ala
            100                 105                 110

Gln Met Lys Arg Xaa Ser Thr Thr Ala Arg Pro Thr Ser Pro Cys Ala
        115                 120                 125

Ser Pro Gly Thr Ser Arg Gly Thr Trp Arg Arg Glu Ala Leu Trp Ser
    130                 135                 140

Met Pro Thr Arg Ser Thr Cys Trp Pro Trp Pro Gln Gln His Cys Thr
145                 150                 155                 160

Ala Ala Val Ala Ser Leu Leu Glu Gly Thr Ser Asp Gln Ser Val Val
                165                 170                 175

Ile Pro Asn Leu Phe Pro Lys Tyr Ile Arg Ala Pro Asn Gly Pro Glu
            180                 185                 190

Ala Asn Pro Val Lys Gln Leu Gln Pro Asn Glu Glu Ala Asp Tyr Leu
        195                 200                 205

Gly Val Arg Ile Gln Leu Xaa Arg Glu Gln Gly Ala Gly Ala Thr Gly
    210                 215                 220

Phe Pro Arg Met Val Gly His Arg Ala Ala Gly Val Pro Asp Arg Leu
225                 230                 235                 240

Gln Pro Cys Cys Pro Trp Ser Phe
                245
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<210> 317
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 317
Met His Cys Leu Ile Ser Phe Leu Ala Leu Ser Leu Phe Leu Phe Val
1 5 10 15

Leu Phe Xaa Pro Phe Ser Leu Pro Ile Lys Asn Ile Cys
20 25

<210> 318
<211> 35
<212> PRT
<213> Homo sapiens

<400> 318
Met Gly Ala Asn Ser Leu Leu His Glu Thr Arg Ala Leu Phe Leu His
1 5 10 15

Leu Met Gln Pro Leu Leu Gly Glu Glu Val Gly Ile Ile Gly Asn Lys
20 25 30

Gln Gln Phe
35

<210> 319
<211> 35
<212> PRT
<213> Homo sapiens

<400> 319
Met Leu Cys Pro Tyr Thr Leu Phe Ser Trp Phe Leu Ser Pro Leu Leu
1 5 10 15

Cys Leu Gln Gly Trp Ala Ala Ala Thr Ala Leu Ala Ser Ser Leu Ser
20 25 30

Ala Ser Glu
35

<210> 320
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 320
Met Ala Ile Arg Cys Cys Ser Ser Thr Ser Asn Ala Leu Ile Leu Ile
1 5 10 15

Leu Phe Xaa Trp Thr Val Leu Leu Ser Ser Ser Xaa Ile Gln Xaa Leu
20 25 30

Pro Ala Leu Leu
35

<210> 321
<211> 51
<212> PRT
<213> Homo sapiens

<400> 321
Met Ser Val Trp Cys Gly Leu Cys Leu Met Ser Phe Leu Thr Phe Arg
1 5 10 15

Cys Arg Leu Phe Gln Leu Leu Leu Phe His Phe Pro Glu Asp Leu Cys
20 25 30

Phe Cys Leu Pro Cys Glu Gln Ala Phe Gly Arg Thr Cys Leu Met Gln
35 40 45

Lys Arg Lys
50

<210> 322
<211> 26
<212> PRT
<213> Homo sapiens

<400> 322
Met Arg His Arg Ala Arg Arg Phe Phe Phe Phe Phe Phe Leu Ser Gly
1 5 10 15

Ile Trp Ala Gly His Gly Gly Ser Cys Leu
20 25

<210> 323
<211> 18
<212> PRT
<213> Homo sapiens

<400> 323
Met Leu Thr Leu Val Ser Phe Val Phe Leu Leu Leu Leu Leu Glu Ser
1 5 10 15

Met Ile

<210> 324
<211> 46
<212> PRT
<213> Homo sapiens

<400> 324
Met Ala Ala Leu Leu Leu Thr Leu Ile Leu Gly Thr Leu His Gln Gln
1 5 10 15

Lys Gly Leu His Val Gln Ser Pro Ile Pro Ser Pro Phe Trp Gly Gly
20 25 30

Glu Ala Tyr Leu Thr Asp Gly Asp Leu Glu Ala Gln Gly Gly

35 40 45

<210> 325
<211> 43
<212> PRT
<213> Homo sapiens

<400> 325
Met Leu Ser Phe Gln Lys Ala Ile Leu Phe Leu Ala Met Gly Cys Leu
1 5 10 15

Pro Cys Ile Pro Gln Gly Leu Ser Cys Ala Phe His Pro Ala Ser Phe
20 25 30

His Lys Ala Leu Ser Gly Cys Arg Thr Leu Ile
35 40

<210> 326
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 326
Val Gly Gly Phe Trp Phe Gly Asp Ile Gln Ser Leu Lys Pro Gly Gly
1 5 10 15

Cys Gly Gln Gly Leu His Phe Met Lys Leu Pro Ser Lys Leu Arg Ser
20 25 30

Leu Gly Pro Gln Asp Pro Pro Asn Trp Pro Xaa Thr Trp Cys His Xaa
35 40 45

Ala Ala Ala Ala Arg Ile Cys Ala Phe Pro Gln Val Pro Cys Leu Ser
50 55 60

Cys Val His Pro Gly Ala Trp
65 70

<210> 327
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 327
Met Cys His Leu Cys Val His Val Gly Leu Leu Val Ser Leu Phe Pro
1 5 10 15

Ser Gln Ala Ala Gly Phe Val Trp Met Arg Met Ala Pro Phe Leu Phe

20 25 30

Thr Asp Arg Tyr Ser Val Pro Ser Thr Val Pro Gly Thr Gln Glu Val
35 40 45

Leu Val Gly Gly Val Pro Val Pro Xaa Arg Pro
50 55

<210> 328
<211> 30
<212> PRT
<213> Homo sapiens

<400> 328
Thr Thr Leu Leu Phe Phe Phe Val Phe Trp Leu Leu Glu Cys Ser Ile
1 5 10 15

Cys Asp Thr Tyr Leu Lys Phe Glu Ile Ser Phe Cys Thr Val
20 25 30

<210> 329
<211> 29
<212> PRT
<213> Homo sapiens

<400> 329
Phe Leu Trp Phe Leu Tyr Lys Ser Ser Asn Thr Ser Ile Phe Leu Leu
1 5 10 15

Leu Leu Ile Leu Gln Asn Val Glu Gln Phe Ala Glu Tyr
20 25

<210> 330
<211> 222
<212> PRT
<213> Homo sapiens

<400> 330
Met Cys Ala Leu Gln Asn Leu Ala Pro Asn Ile Phe Phe Ile Leu Phe
1 5 10 15

Leu Met Glu Ala Thr Ile Cys Ser Leu Leu Leu Cys Asn Arg Asn Asp
20 25 30

Thr Ala Trp Asp Glu Leu Lys Leu Thr Cys Gln Thr Ala Leu His Val
35 40 45

Leu Gln Leu Thr Leu Lys Glu Pro Trp Ala Leu Leu Gly Gly Gly Cys
50 55 60

Thr Glu Thr His Leu Ala Ala Tyr Ile Arg His Lys Thr His Asn Asp
65 70 75 80

Pro Glu Ser Ile Leu Lys Asp Asp Glu Cys Thr Gln Thr Glu Leu Gln
85 90 95

Leu Ile Ala Glu Ala Phe Cys Ser Ala Leu Glu Ser Val Val Gly Ser
100 105 110

Leu Glu His Asp Gly Gly Glu Ile Leu Thr Asp Met Lys Tyr Gly His
115 120 125

Leu Trp Ser Val Gln Ala Asp Ser Pro Cys Val Ala Asn Trp Pro Asp

130 135 140

Leu Leu Ser Gln Cys Gly Cys Gly Leu Tyr Asn Ser Gln Glu Glu Leu
145 150 155 160

Asn Trp Ser Phe Leu Arg Ser Thr Arg Arg Pro Phe Val Pro Gln Ser
165 170 175

Cys Leu Pro His Glu Ala Val Gly Ser Ala Ser Asn Leu Thr Leu Asp
180 185 190

Cys Leu Thr Ala Lys Leu Ser Gly Leu Gln Val Ala Val Glu Thr Ala
195 200 205

Asn Leu Ile Leu Asp Leu Ser Tyr Val Ile Glu Asp Lys Asn
210 215 220

<210> 331
<211> 155
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 331
Gln Gly Asn Ser Ala Arg Ala Leu Lys Val Phe Asn Ile Xaa Val Leu
1 5 10 15

Xaa Pro Ser Gly Asn Tyr Xaa Met Ile Tyr Leu Ile Arg Val Gly Met
20 25 30

Glu Trp Ile His Leu Xaa Asp Ala Lys Gln Pro Glu Xaa Ala Val Pro
35 40 45

Arg Gly His Ile Ser Lys Trp Ser Glu Met Arg Phe Ala Val Val Phe
50 55 60

Leu Met Gln Phe Pro Thr Ser Leu Gln Met Pro Phe Asp Ile Trp Gln
65 70 75 80

His Phe Met Pro Leu Pro Leu Ser Val Phe Ile Leu Val Phe Ser Pro
85 90 95

Phe Ser His Xaa Leu Gly Ser Leu Leu Gln Ser Arg Phe Ser Asp Phe
100 105 110

Arg Phe Phe Ser Leu Cys Pro Phe Pro Leu Cys Pro Val Thr Arg Ser
115 120 125

Thr Phe Trp His Arg Pro Ile Ser Gln Phe Pro Leu Ser Gln Val Gln
130 135 140

Gln His Leu Lys Asp Ile Tyr Lys Arg Asp Thr
145 150 155

<210> 332
<211> 18
<212> PRT
<213> Homo sapiens

<400> 332
Arg Ser Arg Glu Ile Glu Thr Arg Gly Leu Leu Ser Leu Phe Pro Pro
1 5 10 15

Ala Ala

<210> 333
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 333
Arg Ser Arg Glu Ile Glu Thr Arg Gly Leu Leu Ser Leu Phe Pro Pro
1 5 10 15

Ala Ala Met His Pro Ala Ala Phe Pro Leu Pro Val Val Val Ala Ala
20 25 30

Val Leu Trp Gly Ala Ala Pro Thr Arg Gly Leu Ile Arg Ala Thr Ser
35 40 45

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Asp His Asn Ala Ser Met Asp Phe Ala Asp Leu Pro Ala Leu Phe Gly
     50                  55                  60

Ala Thr Leu Ser Gln Glu Gly Leu Gln Gly Phe Leu Val Glu Ala His
 65                  70                  75                  80

Pro Asp Asn Ala Cys Ser Pro Ile Ala Pro Pro Xaa Pro Ala Pro Val
                85                  90                  95

Asn Gly Ser Val Phe Ile Ala Leu Leu Xaa Arg Phe Asp Xaa Asn Phe
            100                 105                 110

Xaa Leu Lys Val Leu Asn Ala Gln Lys Ala Gly Tyr Gly Ala Ala Val
        115                 120                 125

Val His Asn Val Asn Ser Asn Glu Leu Leu Asn Met Val Leu
    130                 135                 140
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<210> 334
<211> 43
<212> PRT
<213> Homo sapiens

<400> 334
Leu Gln Gln Thr Met Gln Ala Met Leu His Phe Gly Gly Arg Leu Ala
  1               5                  10                  15

Gln Ser Leu Arg Gly Thr Ser Lys Glu Ala Ala Ser Asp Pro Ser Asp
            20                  25                  30

Ser Pro Asn Leu Pro Thr Pro Gly Ser Trp Trp
        35                  40


<210> 335
<211> 45
<212> PRT
<213> Homo sapiens

<400> 335
Glu Gln Leu Thr Gln Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu
  1               5                  10                  15

Gly Phe Pro Leu Ser Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala
            20                  25                  30

Glu Glu Gly Ala Gln Glu Arg Pro Leu Pro Thr Asp Glu
        35                  40                  45


<210> 336
<211> 45
<212> PRT
<213> Homo sapiens

<400> 336
Met Ala Pro Gly Arg Gly Leu Trp Leu Gly Arg Leu Phe Gly Val Pro
  1               5                  10                  15

Gly Gly Pro Ala Glu Asn Glu Asn Gly Ala Leu Lys Ser Arg Arg Pro
            20                  25                  30

Ser Ser Trp Leu Pro Pro Thr Val Ser Val Leu Ala Leu
        35                  40                  45
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<210> 337
<211> 44
<212> PRT
<213> Homo sapiens

<400> 337
Val Lys Arg Gly Ala Pro Pro Glu Met Pro Ser Pro Gln Glu Leu Glu
1 5 10 15

Ala Ser Ala Pro Arg Met Val Gln Thr His Arg Ala Val Arg Ala Leu
20 25 30

Cys Asp His Thr Ala Ala Arg Pro Asp Gln Leu Ser
35 40

<210> 338
<211> 38
<212> PRT
<213> Homo sapiens

<400> 338
Phe Arg Arg Gly Glu Val Leu Arg Val Ile Thr Thr Val Asp Glu Asp
1 5 10 15

Trp Leu Arg Cys Gly Arg Asp Gly Met Glu Gly Leu Val Pro Val Gly
20 25 30

Tyr Thr Ser Leu Val Leu
35

<210> 339
<211> 215
<212> PRT
<213> Homo sapiens

<400> 339
Leu Gln Gln Thr Met Gln Ala Met Leu His Phe Gly Gly Arg Leu Ala
1 5 10 15

Gln Ser Leu Arg Gly Thr Ser Lys Glu Ala Ala Ser Asp Pro Ser Asp
20 25 30

Ser Pro Asn Leu Pro Thr Pro Gly Ser Trp Trp Glu Gln Leu Thr Gln
35 40 45

Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu Gly Phe Pro Leu Ser
50 55 60

Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala Glu Glu Gly Ala Gln
65 70 75 80

Glu Arg Pro Leu Pro Thr Asp Glu Met Ala Pro Gly Arg Gly Leu Trp
85 90 95

Leu Gly Arg Leu Phe Gly Val Pro Gly Gly Pro Ala Glu Asn Glu Asn
100 105 110

Gly Ala Leu Lys Ser Arg Arg Pro Ser Ser Trp Leu Pro Pro Thr Val
115 120 125

Ser Val Leu Ala Leu Val Lys Arg Gly Ala Pro Pro Glu Met Pro Ser
130 135 140

```
Pro Gln Glu Leu Glu Ala Ser Ala Pro Arg Met Val Gln Thr His Arg
145                 150                 155                 160

Ala Val Arg Ala Leu Cys Asp His Thr Ala Ala Arg Pro Asp Gln Leu
                165                 170                 175

Ser Phe Arg Arg Gly Glu Val Leu Arg Val Ile Thr Thr Val Asp Glu
            180                 185                 190

Asp Trp Leu Arg Cys Gly Arg Asp Gly Met Glu Gly Leu Val Pro Val
        195                 200                 205

Gly Tyr Thr Ser Leu Val Leu
    210                 215
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<210> 340
<211> 21
<212> PRT
<213> Homo sapiens

<400> 340
Ile Pro Glu Lys Lys Tyr Pro Gln Pro Lys Gly Gln Lys Lys Lys Lys
1 5 10 15

Ile Val Lys Tyr Gly
 20

<210> 341
<211> 11
<212> PRT
<213> Homo sapiens

<400> 341
Phe Cys Ser Ser Phe Thr Asn Ser Val Leu Ser
1 5 10

<210> 342
<211> 12
<212> PRT
<213> Homo sapiens

<400> 342
Ala Arg Gly Val Phe Val Cys Val Cys Gly Val Cys
1 5 10

<210> 343
<211> 21
<212> PRT
<213> Homo sapiens

<400> 343
Gln Val Tyr Ser Leu Asp Ser Ala Asp Ser Phe Gln Ser Phe Tyr Ser
1 5 10 15

Pro His Lys Ala Gln
 20

<210> 344
<211> 229
<212> PRT

<213> Homo sapiens

<400> 344
Met Thr Thr Ala Ala Arg Pro Thr Phe Glu Pro Ala Arg Gly Gly Arg
1 5 10 15

Gly Lys Gly Glu Gly Asp Leu Ser Gln Leu Ser Lys Gln Tyr Ser Ser
20 25 30

Arg Asp Leu Pro Ser His Thr Lys Ile Lys Tyr Arg Gln Thr Thr Gln
35 40 45

Asp Ala Pro Glu Glu Val Arg Asn Arg Asp Phe Arg Arg Glu Leu Glu
50 55 60

Glu Arg Glu Arg Ala Ala Ala Arg Glu Lys Asn Arg Asp Arg Pro Thr
65 70 75 80

Arg Glu His Thr Thr Ser Ser Ser Val Ser Lys Lys Pro Arg Leu Asp
85 90 95

Gln Ile Pro Ala Ala Asn Leu Asp Ala Asp Asp Pro Leu Thr Asp Glu
100 105 110

Glu Asp Glu Asp Phe Glu Glu Glu Ser Asp Asp Asp Asp Thr Ala Ala
115 120 125

Leu Leu Ala Glu Leu Glu Lys Ile Lys Lys Glu Arg Ala Glu Glu Gln
130 135 140

Ala Arg Lys Glu Gln Glu Gln Lys Ala Glu Glu Glu Arg Ile Arg Met
145 150 155 160

Glu Asn Ile Leu Ser Gly Asn Pro Leu Leu Asn Leu Thr Gly Pro Ser
165 170 175

Gln Pro Gln Ala Asn Phe Lys Val Lys Arg Arg Trp Asp Asp Asp Val
180 185 190

Val Phe Lys Asn Cys Ala Lys Gly Val Asp Asp Gln Lys Lys Asp Lys
195 200 205

Arg Phe Val Asn Asp Thr Leu Arg Ser Glu Phe His Lys Lys Phe Met
210 215 220

Glu Lys Tyr Ile Lys
225

<210> 345
<211> 130
<212> PRT
<213> Homo sapiens

<400> 345
Gly Trp Asp Gly Pro Val Arg Leu Arg Arg Gly Phe Pro Leu Arg Met
1 5 10 15

Phe Ser Ile Arg Ile Leu Ser Ser Ser Ala Phe Cys Ser Cys Ser Phe
20 25 30

Leu Ala Cys Ser Ser Ala Leu Ser Phe Leu Ile Phe Ser Ser Ser Ala
35 40 45

Arg Arg Ala Ala Val Ser Ser Ser Ser Leu Ser Ser Ser Lys Ser Ser
50 55 60

09506610.1400304

Ser Ser Ser Ser Val Arg Gly Ser Ser Ala Ser Arg Leu Ala Ala Gly
65 70 75 80

Ile Trp Ser Asn Arg Gly Phe Phe Asp Thr Glu Glu Glu Val Val Cys
85 90 95

Ser Arg Val Gly Arg Ser Leu Phe Phe Ser Leu Ala Ala Ala Leu Ser
100 105 110

Leu Ser Ser Asn Ser Leu Leu Lys Ser Arg Leu Arg Thr Ser Ser Gly
115 120 125

Ala Ser
130

<210> 346
<211> 66
<212> PRT
<213> Homo sapiens

<220>
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<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 346
Glu Phe Gly Thr Ser Asp Leu Val Pro Phe Val Lys Ile Glu Asn Asn
1 5 10 15

His Phe Val Phe Leu Cys Arg His Ser Leu Ala Val Gly Met His Ser
20 25 30

Ser Ala Glu Thr Leu Leu Cys Trp Pro Leu Phe Val Gly Val Ala Val
35 40 45

Gly Gly Gln Gly Ala Ser Ser Lys Ser Ser Ser Xaa Trp Thr Leu Ser
50 55 60

Arg Ala
65

<210> 347
<211> 81
<212> PRT
<213> Homo sapiens

<400> 347
Met Pro Pro Asp Ser Pro Gln Arg Trp Arg Trp Cys Trp Cys Cys Trp
1 5 10 15

Pro Pro Pro Val Thr Tyr Ser Trp Glu Val Thr Pro Leu Leu Arg Ala
20 25 30

Met Leu Pro Gly Asp Gly Arg Val Gly Pro Ala Val Leu Val Arg Leu
35 40 45

Ser Arg Gly Val Ser Gly Ser Pro Phe Pro Ala Gly Gly Ser Pro Arg
50 55 60

Val Pro Ser Cys Ala Cys Ile Val Leu Thr Ser Arg Asn Gly Ser Ser
65 70 75 80

Trp

<210> 348
<211> 56
<212> PRT
<213> Homo sapiens

<400> 348
Gly Thr Arg Ala Leu Ser Cys Met Pro Arg Val Leu His Glu Arg Ala
1 5 10 15

Pro Leu Val Met Pro Leu Asp Ala Ala Lys Ser Met Val Val Phe Asn
20 25 30

Phe Ala Ile Leu Leu Phe Phe Leu Pro Asp Pro Gly Met Ser Leu Asp
35 40 45

Ile Ala Lys Ile Tyr Phe Cys Ser
50 55

<210> 349
<211> 36
<212> PRT
<213> Homo sapiens

<400> 349
Ala Arg Ala Thr Pro Pro His Arg His Ser Pro Glu Pro Cys Gln Glu
1 5 10 15

Ala Ala Ser Thr Gln Pro Tyr Leu Glu Ala Pro Ala Pro Ser Pro Gly
20 25 30

Tyr His Ala Thr
35

<210> 350
<211> 63
<212> PRT
<213> Homo sapiens

<400> 350
His Glu Pro Pro His Pro Thr Ala Thr Ala Gln Ser Arg Ala Arg Lys
1 5 10 15

Pro Pro Arg Arg Ser Arg Ile Leu Arg Leu Gln Pro His Pro Gln Gly
20 25 30

Thr Thr Pro Arg Arg Asp Thr Ile Phe His Phe Val Phe Val Thr Pro
35 40 45

Lys Ala Cys Val Leu Ala Ala Pro Thr Leu Gly Cys Leu Gly Ala
50 55 60

<210> 351
<211> 27
<212> PRT
<213> Homo sapiens

<400> 351
Gly Arg Pro Thr Arg Pro Pro Thr Arg Pro Ala Gly Asp Lys Ile Tyr
1 5 10 15

Val Val Lys Arg Glu Asn Ala Ile Phe Phe Arg
20 25

<210> 352
<211> 74
<212> PRT
<213> Homo sapiens

<220>
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<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 352
Ala Ile Ser Ala His Cys Asn Leu Cys Leu Leu Gly Leu Xaa Xaa Ser
1 5 10 15

Xaa Xaa Ser Ala Ser Gln Val Gly Gly Thr Thr Gly Val Cys His His
20 25 30

Ala Leu Leu Ile Leu Phe Val Phe Leu Val Glu Thr Gly Ile His His
35 40 45

Ile Gly Gln Ser Gly Leu Lys Leu Leu Thr Ser Gly Asp Pro Pro Thr
50 55 60

Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly
65 70

<210> 353
<211> 65
<212> PRT
<213> Homo sapiens

<400> 353
Asn Arg Asn Gln Tyr Val Thr Pro Leu Pro Thr Asn Ile Met Thr Leu
1 5 10 15

His Ile Leu Leu Asn Leu Leu Tyr Phe Ser Leu Val Ala Phe Thr Thr
20 25 30

Trp Leu Thr Val Tyr Leu Pro Ile Cys Tyr Cys Leu Pro Ile Pro Ala
35 40 45

Gly Thr Gln Thr Leu Gly Arg Gln Arg Leu Cys Leu Ile His Tyr Cys
50 55 60

Ile
65

<210> 354
<211> 23
<212> PRT
<213> Homo sapiens

<400> 354
Trp Gly Val Gly Leu His Ser Phe Pro Val Thr Pro Glu Thr Gln Glu
1 5 10 15

Gln Asp Ala Glu Ile Val Gln
20

<210> 355
<211> 43
<212> PRT
<213> Homo sapiens

<400> 355
Pro Val Thr Pro Glu Thr Gln Glu Gln Asp Ala Glu Ile Val Gln Val
1 5 10 15

Asn Ala Ala Leu Gln Leu Pro Val Met Gln Glu Gln Arg Val Pro Ile
20 25 30

Phe Gln Arg Ser Arg Gly Arg Asn Ser Ser Lys
35 40

<210> 356
<211> 154
<212> PRT
<213> Homo sapiens

<220>
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<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 356
Ser Leu Ser Pro Cys Leu Phe Ser Asp Glu Ala Lys Trp Pro Gly Gly
1 5 10 15

Thr Leu Arg Thr Pro Ser Leu Gln Arg Gly Gly Gln Leu Gly Leu Ser
20 25 30

Pro Gln Cys Phe Leu Pro Val Thr Cys Val Leu Leu Ala Gly Val Gly
35 40 45

Gly Ala Gly Ile Leu Ala Leu Leu Gly Gly Arg Ala Gln Pro Glu Glu
50 55 60

Ala Glu Pro Gln Thr Gly Met Gly Phe Ser Xaa Val Gly Cys Gly Arg
65 70 75 80

Gly Asp Asp Ala Leu Phe Leu Ile Phe Asp Leu Phe Phe Gln Leu Asp
85 90 95

Phe Phe Pro Gly Leu Phe Leu Gly Pro Ala Ala Phe Val Ile Pro Arg

100 105 110

Pro Gly Pro Arg Pro Xaa Thr Ser Ser Ala Gly Ala Pro Pro Ala Val
115 120 125

Gly Ser Gly Cys Asp Arg Ala Glu Val Leu Ser Gly Thr Leu Gly Ser
130 135 140

Gln Pro Gly Asp Ser Glu Pro Arg Gly Arg
145 150

<210> 357
<211> 115
<212> PRT
<213> Homo sapiens

<220>
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<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 357
Pro Tyr Asp Glu Glu Ile Ile Thr Val Lys Lys Tyr Glu Ala Gln Arg
1 5 10 15

Pro Thr Ile Asn Cys Pro Ile Ile Asn Val Glu Phe Lys Leu Asp Leu
20 25 30

Ser Leu Gly Arg Val Cys Thr Phe Tyr Cys Cys Cys Ser Ile Ile Ile
35 40 45

Arg Gln Val Tyr Arg Lys Tyr Met Met Ser Thr Tyr Asn Pro Arg Ile
50 55 60

Lys Phe Tyr Ser His Ser Arg Ser His Tyr Tyr Leu His Ser Lys Lys
65 70 75 80

Leu Leu Asn Glu Gln Leu Lys Glu Xaa Thr Lys Xaa Xaa Lys Arg Ile
85 90 95

Gln Thr Gly Xaa Xaa Gln Thr Gly Ile Arg Glu Asp Met Arg Lys Met
100 105 110

Ile Asn Gln
115

<210> 358
<211> 34
<212> PRT
<213> Homo sapiens

<400> 358
Pro Tyr Asp Glu Glu Ile Ile Thr Val Lys Lys Tyr Glu Ala Gln Arg
1 5 10 15

Pro Thr Ile Asn Cys Pro Ile Ile Asn Val Glu Phe Lys Leu Asp Leu
20 25 30

Ser Leu

<210> 359
<211> 34
<212> PRT
<213> Homo sapiens

<400> 359
Gly Arg Val Cys Thr Phe Tyr Cys Cys Cys Ser Ile Ile Ile Arg Gln
1 5 10 15

Val Tyr Arg Lys Tyr Met Met Ser Thr Tyr Asn Pro Arg Ile Lys Phe
20 25 30

Tyr Ser

<210> 360
<211> 47
<212> PRT
<213> Homo sapiens

<220>
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<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 360
His Ser Arg Ser His Tyr Tyr Leu His Ser Lys Lys Leu Leu Asn Glu

1 5 10 15

Gln Leu Lys Glu Xaa Thr Lys Xaa Xaa Lys Arg Ile Gln Thr Gly Xaa
20 25 30

Xaa Gln Thr Gly Ile Arg Glu Asp Met Arg Lys Met Ile Asn Gln
35 40 45

<210> 361
<211> 8
<212> PRT
<213> Homo sapiens

<400> 361
Trp Gly Leu Val Thr Leu Ala Gly
1 5

<210> 362
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 362
Gly Ser Val Gly Xaa Asn Xaa Leu Thr Thr Xaa Ala Glu Asn Ile Xaa
1 5 10 15

Val Met Ala Val Thr Lys Ile Tyr Ser Thr Leu Val Phe Val Ala Xaa
20 25 30

Ala Val Ile Ala Met Leu Leu Gly Phe Ser Pro Lys Phe Gly Ala Leu
35 40 45

Ile His Thr Ile Pro Ala Ala Val Ile Gly Gly Ala Ser Ile Val Val
50 55 60

Phe Gly Leu Ile Ala Val Ala Gly Ala Arg Ile Trp Val Gln Asn Arg
65 70 75 80

Val Asp Leu Ser Gln Asn Gly Asn Leu Ile

85 90

<210> 363
<211> 15
<212> PRT
<213> Homo sapiens

<400> 363
Glu Ala Ala Gln Arg Gly Gln Val Gly Ser Asp Phe Ile Ile Asn
1 5 10 15

<210> 364
<211> 35
<212> PRT
<213> Homo sapiens

<400> 364
Arg Gln Gly Leu Ala Leu Leu Pro Arg Leu Glu Gly Ser Gly Met Ile
1 5 10 15

Ile Ala His Cys Ser Leu Glu Leu Leu Asp Ser Ser Asp Pro Pro Thr
20 25 30

Ser Thr Ser
35

<210> 365
<211> 71
<212> PRT
<213> Homo sapiens

<220>
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<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 365
Asp Tyr Arg His Val Pro Pro His Leu Ala Asn Phe Phe Cys Phe Val
1 5 10 15

Asp Thr Gly Ser His Tyr Val Ala His Ala Ser Leu Glu Leu Leu Ala
20 25 30

Ser Ser Gly Ser Pro Thr Xaa Ala Ser Gln Ser Thr Gly His Tyr Xaa
35 40 45

Gln Glu Pro Pro Cys Leu Ala Ser Ile Leu Val Ile Asn Lys Glu Gln
50 55 60

Leu Ser Pro Ile Ala Leu Gln
65 70

<210> 366
<211> 134
<212> PRT
<213> Homo sapiens

Patent Application Publication Sep 16, 2004

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 366
Gly Thr Ser Ser Thr Ser Gly Ser Gln Ser Leu Gly Ala Met Lys Cys
1 5 10 15

Ser Asn Asp Arg Pro Ile Trp Arg Arg His Asp Gly Trp Val Cys Arg
20 25 30

Thr Gln Leu Asn Ser Gly Ala Asp Leu Gly Met Ala Ile Arg Cys Cys
35 40 45

Ser Ser Thr Ser Asn Ala Leu Ile Leu Ile Leu Phe Thr Trp Thr Val
50 55 60

Leu Leu His His Pro Arg Ser Ser Ser Phe Leu Pro Ser Phe Lys Lys
65 70 75 80

Pro Ser Trp Thr Ser Pro Leu Gly Tyr Ala Ile Ile Ala Thr Pro Cys
85 90 95

Asn Ser Leu Ser Xaa His Leu Ser Cys Tyr Ile Glu Leu Ser Val Ser
100 105 110

Leu Thr Glu Cys Glu Pro Ala Leu Lys Leu Glu Val Arg Leu Gln Ala
115 120 125

Gly Gly Ile Val Leu Gly
130

<210> 367
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 367
Thr Arg Pro Tyr Tyr Cys Asn Val Cys Asn Cys Leu Val Lys Asp Ser
1 5 10 15

Ile Asn Phe Leu Asp His Ile Asn Gly Lys Lys His Gln Arg Asn Leu
20 25 30

Gly Met Ser Met Arg Val Glu Arg Ser Thr Leu Xaa Ser Gly Glu Glu
35 40 45

Thr Phe Gly Gln Gln Glu Glu Asp Gly Arg Glu
50 55

<210> 368
<211> 187
<212> PRT
<213> Homo sapiens

<400> 368
Arg Arg Lys Trp Asp Lys Asp Glu Tyr Glu Lys Leu Ala Glu Lys Arg
1 5 10 15

Leu Thr Glu Glu Arg Glu Lys Lys Asp Gly Lys Pro Val Gln Pro Val
20 25 30

Lys Arg Glu Leu Leu Arg His Arg Asp Tyr Lys Val Asp Leu Glu Ser
35 40 45

Lys Leu Gly Lys Thr Ile Val Ile Thr Lys Thr Thr Pro Gln Ser Glu
50 55 60

Met Gly Gly Tyr Tyr Cys Asn Val Cys Asp Cys Val Val Lys Asp Ser
65 70 75 80

Ile Asn Phe Leu Asp His Ile Asn Gly Lys Lys His Gln Arg Asn Leu
85 90 95

Gly Met Ser Met Arg Val Glu Arg Ser Thr Leu Asp Gln Val Lys Lys
100 105 110

Arg Phe Glu Val Asn Lys Lys Lys Met Glu Glu Lys Gln Lys Asp Tyr
115 120 125

Asp Phe Glu Glu Arg Met Lys Glu Leu Arg Glu Glu Glu Glu Lys Ala
130 135 140

Lys Ala Tyr Lys Lys Glu Lys Gln Lys Glu Lys Lys Arg Arg Ala Glu
145 150 155 160

Glu Asp Leu Thr Phe Glu Glu Asp Asp Glu Met Ala Ala Val Met Gly
165 170 175

Phe Ser Gly Phe Gly Ser Thr Lys Lys Ser Tyr
180 185

<210> 369
<211> 19
<212> PRT
<213> Homo sapiens

<400> 369
Leu Leu Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Val Gly
1 5 10 15

Ile Thr Gly

<210> 370
<211> 60
<212> PRT
<213> Homo sapiens

<400> 370
Met Glu Asn Trp Glu Leu Pro Trp Asn Leu Gln Gly Arg Ala Glu Glu
1 5 10 15

Lys Asn Asn Gly Ile His Ser Ser Ser His Phe Pro Asp Glu Asn Lys
20 25 30

Arg Thr Phe Ser Val Lys Ser Arg Lys Trp Leu Gln Trp Tyr Phe Gln
35 40 45

Pro Val Arg Ile Met Tyr Cys Pro Ser Pro Phe Tyr
50 55 60

<210> 371
<211> 109
<212> PRT
<213> Homo sapiens

<400> 371
Asp Asn Lys Thr Ala Leu Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr
1 5 10 15

Met Val Arg Asp Ile Leu Gln Cys Asn Pro Asp Thr Glu Ile Cys Thr
20 25 30

Lys Asp Gly Glu Thr Pro Leu Ile Lys Ala Thr Lys Met Arg Asn Ile
35 40 45

Glu Val Val Glu Leu Leu Leu Asp Lys Gly Ala Lys Val Ser Ala Val
50 55 60

Asp Lys Lys Gly Asp Thr Pro Leu His Ile Ala Ile Arg Gly Arg Ser
65 70 75 80

Arg Lys Leu Ala Glu Leu Leu Leu Arg Asn Pro Lys Asp Gly Arg Leu
85 90 95

Leu Tyr Arg Pro Asn Lys Ala Gly Glu Thr Pro Leu Val
100 105

<210> 372
<211> 29
<212> PRT
<213> Homo sapiens

<400> 372
Asp Asn Lys Thr Ala Leu Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr
1 5 10 15

Met Val Arg Asp Ile Leu Gln Cys Asn Pro Asp Thr Glu
20 25

<210> 373
<211> 29
<212> PRT
<213> Homo sapiens

<400> 373
Ile Cys Thr Lys Asp Gly Glu Thr Pro Leu Ile Lys Ala Thr Lys Met
1 5 10 15

Arg Asn Ile Glu Val Val Glu Leu Leu Leu Asp Lys Gly
20 25

<210> 374
<211> 29
<212> PRT
<213> Homo sapiens

<400> 374
Ala Lys Val Ser Ala Val Asp Lys Lys Gly Asp Thr Pro Leu His Ile
1 5 10 15

Ala Ile Arg Gly Arg Ser Arg Lys Leu Ala Glu Leu Leu
20 25

<210> 375
<211> 22
<212> PRT
<213> Homo sapiens

<400> 375
Leu Arg Asn Pro Lys Asp Gly Arg Leu Leu Tyr Arg Pro Asn Lys Ala
1 5 10 15

Gly Glu Thr Pro Leu Val
20

<210> 376
<211> 18
<212> PRT
<213> Homo sapiens

<400> 376
Lys Ala Gly Gln Lys Gln Asn Thr Gly Lys Leu Lys His Phe Gln Ala
1 5 10 15

Met Lys

<210> 377
<211> 124
<212> PRT
<213> Homo sapiens

<220>
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<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE
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<220>
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<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 377
Ile Arg His Glu Ser Ala Cys Lys Ala His Lys His Val Arg Ser Pro
1 5 10 15

Gly Leu Gln Thr Asp Lys His Leu Ser Cys Ser Glu Tyr Leu Gln Val
20 25 30

Pro Gly Leu Xaa Glu Gln Val Gln Lys Phe Leu Pro Ser Arg Ile Arg
35 40 45

Val Phe Leu Phe Val Cys Phe Leu Thr His Xaa Tyr Val Asn Lys Glu
50 55 60

Tyr Ala Phe Val Leu Ala Glu Glu Ala Ser Gly Lys Thr Thr Ser Lys
65 70 75 80

Leu Thr Met Val Thr Ser Arg Asn Gly Leu Gly Lys Pro Lys Asn Phe
85 90 95

Phe Val Phe Val Phe Phe Glu Ser Gly Ser Ser Ser Val Thr Gln Xaa
100 105 110

Gly Thr His Trp Cys Asp Xaa Gly Ser Leu Gln Pro
115 120

<210> 378
<211> 24
<212> PRT
<213> Homo sapiens

<400> 378
Leu Phe Leu Leu Gly Ile Glu Asn Gly Ser His His Leu Leu Asn Lys
1 5 10 15

Ile Leu Ser Gly Ser His Ser Glu
20

<210> 379
<211> 11
<212> PRT
<213> Homo sapiens

<400> 379
Arg Glu Val Gln Tyr Leu Phe Phe Val Gly Ile
1 5 10

<210> 380
<211> 32
<212> PRT
<213> Homo sapiens

<400> 380
Arg Arg Gly Phe His His Val Ser Gln Ala Gly Leu Glu Leu Leu Thr
1 5 10 15

Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly
20 25 30

<210> 381
<211> 25
<212> PRT
<213> Homo sapiens

<400> 381
Gly Ser Leu Ile Lys Leu Ile Gly Asp Leu Phe Phe His Pro Arg Asn
1 5 10 15

Trp Arg Ala Met Ile Ile Gly Ile Glu
20 25

<210> 382

<211> 46
<212> PRT
<213> Homo sapiens

<400> 382
Thr Ser Glu Leu Gly Thr Val Asp Pro Arg Leu Pro Pro Pro Pro Gly
1 5 10 15

Ser Gly Thr Arg Ser Ala Leu Pro Arg Gly Gly Arg Trp Ser Trp Ser
20 25 30

Leu Ala Tyr Leu Pro Arg Val Arg Gly Gly Cys Arg Gly Thr
35 40 45

<210> 383
<211> 45
<212> PRT
<213> Homo sapiens

<400> 383
Asp Pro Lys Val Gly Val Leu Glu Gly Arg Ser Phe Gly Leu Leu Thr
1 5 10 15

Gly Thr Lys Thr Lys Ile Pro Asn Lys Ile Pro Asn Lys Asn Val Asn
20 25 30

Arg Val Phe Ser Ser Ile Val Thr Glu Thr Leu Val Asn
35 40 45

<210> 384
<211> 34
<212> PRT
<213> Homo sapiens

<400> 384
Lys Tyr Phe Val Glu Met Glu Ser Cys His Leu Ala Gln Ala Gly Val
1 5 10 15

Cys Ile Leu Ile Lys Leu Phe Leu Lys His Lys Gly Ala Val Asn Arg
20 25 30

Met Met

<210> 385
<211> 64
<212> PRT
<213> Homo sapiens

<400> 385
Arg Ile Ser Cys Pro Phe Tyr Leu Asn Ser Arg Arg Pro Arg Ser Cys
1 5 10 15

Ser Trp Thr Val Ile Lys Val Arg Asn Gly Arg Asn Ser Val Cys Lys
20 25 30

Gly Gly Thr Leu Pro Ala Ser Pro Asp Thr Ala Leu Pro Ala Ser Tyr
35 40 45

Arg Ala Thr His Ala Gln His Val Glu Gln Leu Val Arg Thr Ser Cys
50 55 60

<210> 386
<211> 256
<212> PRT
<213> Homo sapiens

<220>
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<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 386
Met Lys Leu Leu Glu Asn Ser Ser Phe Glu Ala Ile Asn Ser Gln Leu
1 5 10 15

Thr Val Glu Thr Gly Asp Ala His Ile Ile Gly Arg Ile Glu Ser Tyr
20 25 30

Ser Cys Lys Met Ala Gly Asp Asp Lys His Met Phe Lys Gln Phe Cys
35 40 45

Gln Glu Gly Gln Pro His Val Leu Glu Ala Xaa Ser Pro Pro Gln Thr
50 55 60

Ser Gly Leu Ser Pro Ser Arg Leu Ser Lys Ser Gln Gly Gly Glu Glu
65 70 75 80

Glu Gly Pro Leu Ser Asp Lys Cys Ser Arg Lys Thr Leu Phe Tyr Leu
85 90 95

Ile Ala Thr Leu Asn Glu Ser Phe Arg Pro Asp Tyr Asp Phe Ser Thr
100 105 110

Ala Arg Ser His Glu Phe Ser Arg Glu Pro Ser Leu Ser Trp Trp Xaa
115 120 125

Asn Ala Val Asn Cys Ser Leu Phe Ser Ala Val Arg Glu Asp Phe Lys
130 135 140

Asp Leu Lys Pro Gln Leu Trp Asn Ala Val Asp Glu Glu Ile Cys Leu
145 150 155 160

Ala Glu Cys Asp Ile Tyr Ser Tyr Asn Pro Asp Leu Asp Ser Asp Pro
165 170 175

Phe Gly Glu Asp Gly Ser Leu Trp Ser Phe Asn Tyr Phe Phe Tyr Asn
180 185 190

Lys Arg Leu Lys Arg Ile Val Phe Phe Ser Cys Arg Ser Ile Ser Gly
195 200 205

Ser Thr Tyr Thr Pro Ser Glu Ala Gly Asn Glu Leu Asp Met Glu Leu
210 215 220

Gly Glu Glu Glu Val Glu Glu Glu Ser Arg Ser Arg Gly Ser Gly Ala
225 230 235 240

Glu Glu Thr Ser Thr Met Glu Glu Asp Arg Val Pro Val Ile Cys Ile
245 250 255

<210> 387
<211> 284
<212> PRT
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<220>
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<222> (274)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 387
Ile Leu Phe Leu Phe Ile Leu Leu Ser Val Phe Pro Val Thr Asn Arg
1 5 10 15

Ser Arg Asn Ser Gly Pro Phe Met Asn Ile Ser Arg Ser Ser Met Asp
20 25 30

Met Gln Lys Arg Asn Phe Pro Val Lys Phe Val Arg Arg Asn Ser Ile
35 40 45

Pro Trp Leu Met Cys Gly Asn Thr Trp Leu His Thr Gln Lys Thr Cys
50 55 60

His Tyr Met Arg Asn Leu Trp Lys Ile Ile Gln Thr His Met Ser Leu
65 70 75 80

Lys Val His Ser Xaa Gln His Ser Xaa Glu Lys Pro Phe Arg Cys Glu
85 90 95

Asn Cys Asp Glu Arg Phe Gln Tyr Lys Tyr Gln Leu Arg Ser His Met
100 105 110

Ser Ile His Ile Gly His Lys Gln Phe Met Cys Gln Trp Cys Gly Lys
115 120 125

Asp Phe Asn Met Lys Gln Tyr Phe Asp Glu His Met Lys Thr His Thr
130 135 140

Gly Glu Lys Pro Phe Ile Cys Glu Ile Cys Gly Lys Ser Phe Thr Ser
145 150 155 160

Arg Pro Asn Met Lys Arg His Arg Arg Thr His Thr Gly Glu Lys Pro
165 170 175

Tyr Pro Cys Asp Val Cys Gly Gln Arg Phe Arg Phe Ser Asn Met Leu
180 185 190

Lys Ala His Lys Glu Lys Cys Phe Arg Val Thr Ser Pro Val Glu Cys
195 200 205

Ala Thr Cys Cys Pro Asp Pro Thr Tyr Asn Phe Pro Ser His Pro Ser
210 215 220

Ser Phe Cys Gly Glu His Ser His Asn Pro Xaa Pro Pro Ile Asn Met
225 230 235 240

Asn Pro Val Ser Thr Leu Pro Leu Gly Pro Ser Pro Thr Pro Ser His
245 250 255

Thr Ala His Pro Pro Thr Pro Ser Pro Pro Thr Pro Xaa Ser His Pro
260 265 270

Ser Xaa Pro Ser Pro Pro Ala Thr Ser Ser Ser Leu
275 280

<210> 388
<211> 37
<212> PRT
<213> Homo sapiens

<400> 388
Ile Leu Phe Leu Phe Ile Leu Leu Ser Val Phe Pro Val Thr Asn Arg
1 5 10 15

Ser Arg Asn Ser Gly Pro Phe Met Asn Ile Ser Arg Ser Ser Met Asp
20 25 30

Met Gln Lys Arg Asn
35

<210> 389
<211> 40
<212> PRT
<213> Homo sapiens

<400> 389
Phe Pro Val Lys Phe Val Arg Arg Asn Ser Ile Pro Trp Leu Met Cys
1 5 10 15

Gly Asn Thr Trp Leu His Thr Gln Lys Thr Cys His Tyr Met Arg Asn
20 25 30

Leu Trp Lys Ile Ile Gln Thr His
35 40

<210> 390
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 390
Met Ser Leu Lys Val His Ser Xaa Gln His Ser Xaa Glu Lys Pro Phe
1 5 10 15

Arg Cys Glu Asn Cys Asp Glu Arg Phe Gln Tyr Lys Tyr Gln Leu Arg
20 25 30

Ser His Met Ser Ile His Ile Gly
35 40

<210> 391
<211> 40
<212> PRT
<213> Homo sapiens

<400> 391
His Lys Gln Phe Met Cys Gln Trp Cys Gly Lys Asp Phe Asn Met Lys
1 5 10 15

Gln Tyr Phe Asp Glu His Met Lys Thr His Thr Gly Glu Lys Pro Phe
20 25 30

Ile Cys Glu Ile Cys Gly Lys Ser
35 40

<210> 392
<211> 40
<212> PRT
<213> Homo sapiens

<400> 392
Phe Thr Ser Arg Pro Asn Met Lys Arg His Arg Arg Thr His Thr Gly
1 5 10 15

Glu Lys Pro Tyr Pro Cys Asp Val Cys Gly Gln Arg Phe Arg Phe Ser
20 25 30

Asn Met Leu Lys Ala His Lys Glu
35 40

<210> 393
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 393
Lys Cys Phe Arg Val Thr Ser Pro Val Glu Cys Ala Thr Cys Cys Pro
1 5 10 15

Asp Pro Thr Tyr Asn Phe Pro Ser His Pro Ser Ser Phe Cys Gly Glu
20 25 30

His Ser His Asn Pro Xaa Pro Pro
35 40

<210> 394
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 394
Ile Asn Met Asn Pro Val Ser Thr Leu Pro Leu Gly Pro Ser Pro Thr
1 5 10 15

Pro Ser His Thr Ala His Pro Pro Thr Pro Ser Pro Pro Thr Pro Xaa
20 25 30

Ser His Pro Ser Xaa Pro Ser Pro Pro Ala Thr Ser Ser Ser Leu
35 40 45

<210> 395
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 395
Asn Xaa Ser Val Lys Asp Ala Ala Lys Lys Gly Gln Lys Asp Val Cys
1 5 10 15

Ile Val Leu Ala Lys Glu Met Ile Arg Ser Arg Lys Ala Val Ser Lys
20 25 30

Leu Tyr Ala Ser Lys Ala His Met Asn Ser Val Leu Met Gly Met Lys
35 40 45

Asn Gln Leu Ala Val Leu Arg Val Ala Gly Ser Leu Gln Lys Ser Thr
50 55 60

Glu Val Met Lys Ala Met Gln Ser Leu Val Lys Ile Pro Glu Ile Gln
65 70 75 80

Ala Thr Met Arg Glu Leu Ser Lys Glu Met Met Lys Ala Gly Ile Ile
85 90 95

Glu Glu Met Leu Glu Asp Thr Phe Glu Xaa Xaa Asp Thr Ser Leu Ser
100 105 110

Pro Lys Val His Ser Leu His Glu Asp Ser Leu Trp Cys Cys Thr Leu
115 120 125

Tyr Gly Leu Arg Gln Met Tyr Asp Asp Ile Tyr Asn Tyr Arg Ile Ile
130 135 140

Gln Asn Ser Phe Thr Ala Leu Lys Leu Leu Tyr Ala Ser Pro Val His
145 150 155 160

Pro Phe Leu Pro

<210> 396
<211> 159
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 396
Lys Pro Glu Gly Ala Arg Arg Val Gln Phe Val Met Gly Leu Phe Gly
1 5 10 15

Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu
20 25 30

Lys Ile Arg Lys Glu Met Arg Val Val Asp Arg Gln Ile Arg Asp Ile
35 40 45

Gln Arg Glu Glu Glu Lys Val Lys Arg Xaa Cys Glu Arg Cys Cys Gln
50 55 60

Glu Gly Pro Glu Gly Cys Leu His Ser Ser Gly Gln Gly Asp Asp Gln
65 70 75 80

Val Lys Glu Gly Cys Glu Gln Ala Val Cys Ile Gln Ser Thr His Glu
85 90 95

Leu Ser Ala His Gly Asp Glu Glu Pro Ala Arg Gly Leu Ala Ser Gly
100 105 110

Trp Phe Pro Ala Glu Glu His Arg Ser Asp Glu Gly His Ala Lys Ser
115 120 125

Cys Glu Asp Ser Arg Asp Ser Gly His His Glu Gly Val Val Gln Arg
130 135 140

Asn Asp Glu Gly Trp Asp His Arg Gly Asp Val Arg Gly His Phe
145 150 155

<210> 397
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 397
Asn Xaa Ser Val Lys Asp Ala Ala Lys Lys Gly Gln Lys Asp Val Cys
1 5 10 15

Ile Val Leu Ala Lys Glu Met Ile Arg Ser Arg Lys Ala Val Ser Lys
20 25 30

Leu

<210> 398
<211> 34
<212> PRT
<213> Homo sapiens

<400> 398
Tyr Ala Ser Lys Ala His Met Asn Ser Val Leu Met Gly Met Lys Asn
1 5 10 15

Gln Leu Ala Val Leu Arg Val Ala Gly Ser Leu Gln Lys Ser Thr Glu
20 25 30

Val Met

<210> 399
<211> 34
<212> PRT
<213> Homo sapiens

<400> 399
Lys Ala Met Gln Ser Leu Val Lys Ile Pro Glu Ile Gln Ala Thr Met
1 5 10 15

Arg Glu Leu Ser Lys Glu Met Met Lys Ala Gly Ile Ile Glu Glu Met
20 25 30

Leu Glu

<210> 400
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 400
Asp Thr Phe Glu Xaa Xaa Asp Thr Ser Leu Ser Pro Lys Val His Ser
1 5 10 15

Leu His Glu Asp Ser Leu Trp Cys Cys Thr Leu Tyr Gly Leu Arg Gln
20 25 30

Met Tyr

<210> 401
<211> 29
<212> PRT
<213> Homo sapiens

<400> 401
Asp Asp Ile Tyr Asn Tyr Arg Ile Ile Gln Asn Ser Phe Thr Ala Leu
1 5 10 15

Lys Leu Leu Tyr Ala Ser Pro Val His Pro Phe Leu Pro
20 25

<210> 402
<211> 35
<212> PRT
<213> Homo sapiens

<400> 402
Lys Pro Glu Gly Ala Arg Arg Val Gln Phe Val Met Gly Leu Phe Gly
1 5 10 15

Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu
20 25 30

Lys Ile Arg
35

<210> 403
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 403
Lys Glu Met Arg Val Val Asp Arg Gln Ile Arg Asp Ile Gln Arg Glu
1 5 10 15

Glu Glu Lys Val Lys Arg Xaa Cys Glu Arg Cys Cys Gln Glu Gly Pro
20 25 30

Glu

<210> 404
<211> 33
<212> PRT
<213> Homo sapiens

<400> 404
Gly Cys Leu His Ser Ser Gly Gln Gly Asp Asp Gln Val Lys Glu Gly
1 5 10 15

Cys Glu Gln Ala Val Cys Ile Gln Ser Thr His Glu Leu Ser Ala His
20 25 30

Gly

<210> 405
<211> 33
<212> PRT
<213> Homo sapiens

<400> 405
Asp Glu Glu Pro Ala Arg Gly Leu Ala Ser Gly Trp Phe Pro Ala Glu
1 5 10 15

Glu His Arg Ser Asp Glu Gly His Ala Lys Ser Cys Glu Asp Ser Arg
20 25 30

Asp

<210> 406
<211> 25
<212> PRT
<213> Homo sapiens

<400> 406
Ser Gly His His Glu Gly Val Val Gln Arg Asn Asp Glu Gly Trp Asp
1 5 10 15

His Arg Gly Asp Val Arg Gly His Phe
20 25

<210> 407
<211> 17
<212> PRT
<213> Homo sapiens

<400> 407
Lys His Ile Gln Met Phe Gly Leu Lys Tyr Ser Leu Gly Cys Cys Gln
1 5 10 15

Ala

<210> 408
<211> 10
<212> PRT
<213> Homo sapiens

<400> 408
Phe Ser Asn Ile Ile Met Gln Tyr Asn Lys
1 5 10

<210> 409
<211> 82
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 409
Thr Xaa Ser Asp Leu Xaa Pro Pro Gly Arg Pro Lys Arg Asp Thr Asp
1 5 10 15

Ser Leu Leu Phe Tyr Pro Gly Xaa Lys Glu Lys Pro Ile Leu Leu Thr
20 25 30

Lys Val Leu Asp Thr Thr Ala Ile Arg Asn Leu Leu Cys Glu Asn Lys
35 40 45

Glu Gln Gly Ser Arg Arg Val Gly Gln Arg Arg Val Arg Ser Trp Pro
50 55 60

Ser Val Arg Ala Thr Cys Gln Leu Ser Phe Val Pro Cys Asp Ile Lys
65 70 75 80

Thr Glu

<210> 410
<211> 473
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (405)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 410
Met Ala Pro Thr Ile Gln Thr Gln Ala Gln Arg Glu Asp Gly His Arg
1 5 10 15

Pro Asn Ser His Arg Thr Leu Pro Glu Arg Ser Gly Val Val Cys Arg
20 25 30

Val Lys Tyr Cys Asn Ser Leu Pro Asp Ile Pro Phe Asp Pro Lys Phe
35 40 45

Ile Thr Tyr Pro Phe Asp Gln Asn Arg Phe Val Gln Tyr Lys Ala Thr
50 55 60

Ser Leu Glu Lys Gln His Lys His Asp Leu Leu Thr Glu Pro Asp Leu
65 70 75 80

Gly Val Thr Ile Asp Leu Ile Asn Pro Asp Thr Tyr Arg Ile Asp Pro
85 90 95

Asn Val Leu Leu Asp Pro Ala Asp Glu Lys Leu Leu Glu Glu Glu Ile
100 105 110

Gln Ala Pro Thr Ser Ser Lys Arg Ser Gln Gln His Ala Lys Val Val
115 120 125

Pro Trp Met Arg Lys Thr Glu Tyr Ile Ser Thr Glu Phe Asn Arg Tyr
130 135 140

Gly Ile Ser Asn Glu Lys Pro Glu Val Lys Ile Gly Val Ser Val Lys
145 150 155 160

Gln Gln Phe Thr Glu Glu Glu Ile Tyr Lys Asp Arg Asp Ser Gln Ile
165 170 175

Thr Ala Ile Glu Lys Thr Phe Glu Asp Ala Gln Lys Ser Ile Ser Gln
180 185 190

His Tyr Ser Lys Pro Arg Val Thr Pro Val Glu Val Met Pro Val Phe
195 200 205

Pro Asp Phe Lys Met Trp Ile Asn Pro Cys Ala Gln Val Ile Phe Asp
210 215 220

Ser Asp Pro Ala Pro Lys Asp Thr Ser Gly Ala Ala Ala Leu Glu Met
225 230 235 240

Met Ser Gln Ala Met Ile Arg Gly Met Met Asp Glu Glu Gly Asn Gln
245 250 255

Phe Val Ala Tyr Phe Leu Pro Val Glu Glu Thr Leu Lys Lys Arg Lys
260 265 270

Arg Asp Gln Glu Glu Glu Met Asp Tyr Ala Pro Asp Asp Val Tyr Asp
275 280 285

Tyr Lys Ile Ala Arg Glu Tyr Asn Trp Asn Val Lys Asn Lys Ala Ser
290 295 300

Lys Gly Tyr Glu Glu Asn Tyr Phe Phe Ile Phe Arg Glu Gly Asp Gly
305 310 315 320

Val Tyr Tyr Asn Glu Leu Glu Thr Arg Val Arg Leu Ser Lys Arg Arg
325 330 335

Ala Lys Ala Gly Val Gln Ser Gly Thr Asn Ala Leu Leu Val Val Lys
340 345 350

His Arg Asp Met Asn Glu Lys Glu Leu Glu Ala Gln Glu Ala Arg Lys
355 360 365

Ala Gln Leu Glu Asn His Glu Pro Glu Glu Glu Glu Glu Glu Glu Met
370 375 380

Glu Thr Glu Glu Lys Glu Ala Gly Gly Ser Asp Glu Glu Gln Glu Lys
385 390 395 400

Gly Ser Ser Ser Xaa Lys Glu Gly Ser Glu Asp Glu His Ser Gly Ser
405 410 415

Glu Ser Glu Arg Glu Glu Gly Asp Arg Asp Glu Ala Ser Asp Lys Ser
420 425 430

Gly Ser Gly Glu Asp Glu Ser Ser Glu Asp Glu Ala Arg Ala Ala Arg
435 440 445

Asp Lys Glu Glu Ile Phe Gly Ser Asp Ala Asp Ser Glu Asp Asp Ala
450 455 460

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Asp Ser Asp Asp Glu Asp Arg Gly Gln
465 470

<210> 411
<211> 38
<212> PRT
<213> Homo sapiens

<400> 411
Met Ala Pro Thr Ile Gln Thr Gln Ala Gln Arg Glu Asp Gly His Arg
1 5 10 15

Pro Asn Ser His Arg Thr Leu Pro Glu Arg Ser Gly Val Val Cys Arg
20 25 30

Val Lys Tyr Cys Asn Ser
35

<210> 412
<211> 38
<212> PRT
<213> Homo sapiens

<400> 412
Leu Pro Asp Ile Pro Phe Asp Pro Lys Phe Ile Thr Tyr Pro Phe Asp
1 5 10 15

Gln Asn Arg Phe Val Gln Tyr Lys Ala Thr Ser Leu Glu Lys Gln His
20 25 30

Lys His Asp Leu Leu Thr
35

<210> 413
<211> 38
<212> PRT
<213> Homo sapiens

<400> 413
Glu Pro Asp Leu Gly Val Thr Ile Asp Leu Ile Asn Pro Asp Thr Tyr
1 5 10 15

Arg Ile Asp Pro Asn Val Leu Leu Asp Pro Ala Asp Glu Lys Leu Leu
20 25 30

Glu Glu Glu Ile Gln Ala
35

<210> 414
<211> 38
<212> PRT
<213> Homo sapiens

<400> 414
Pro Thr Ser Ser Lys Arg Ser Gln Gln His Ala Lys Val Val Pro Trp
1 5 10 15

Met Arg Lys Thr Glu Tyr Ile Ser Thr Glu Phe Asn Arg Tyr Gly Ile
20 25 30

Ser Asn Glu Lys Pro Glu
35

<210> 415
<211> 38
<212> PRT
<213> Homo sapiens

<400> 415
Val Lys Ile Gly Val Ser Val Lys Gln Gln Phe Thr Glu Glu Glu Ile
1 5 10 15

Tyr Lys Asp Arg Asp Ser Gln Ile Thr Ala Ile Glu Lys Thr Phe Glu
20 25 30

Asp Ala Gln Lys Ser Ile
35

<210> 416
<211> 38
<212> PRT
<213> Homo sapiens

<400> 416
Ser Gln His Tyr Ser Lys Pro Arg Val Thr Pro Val Glu Val Met Pro
1 5 10 15

Val Phe Pro Asp Phe Lys Met Trp Ile Asn Pro Cys Ala Gln Val Ile
20 25 30

Phe Asp Ser Asp Pro Ala
35

<210> 417
<211> 38
<212> PRT
<213> Homo sapiens

<400> 417
Pro Lys Asp Thr Ser Gly Ala Ala Ala Leu Glu Met Met Ser Gln Ala
1 5 10 15

Met Ile Arg Gly Met Met Asp Glu Glu Gly Asn Gln Phe Val Ala Tyr
20 25 30

Phe Leu Pro Val Glu Glu
35

<210> 418
<211> 38
<212> PRT
<213> Homo sapiens

<400> 418
Thr Leu Lys Lys Arg Lys Arg Asp Gln Glu Glu Glu Met Asp Tyr Ala
1 5 10 15

Pro Asp Asp Val Tyr Asp Tyr Lys Ile Ala Arg Glu Tyr Asn Trp Asn
20 25 30

Val Lys Asn Lys Ala Ser
35

<210> 419
<211> 38
<212> PRT
<213> Homo sapiens

<400> 419
Lys Gly Tyr Glu Glu Asn Tyr Phe Phe Ile Phe Arg Glu Gly Asp Gly
1 5 10 15

Val Tyr Tyr Asn Glu Leu Glu Thr Arg Val Arg Leu Ser Lys Arg Arg
20 25 30

Ala Lys Ala Gly Val Gln
35

<210> 420
<211> 38
<212> PRT
<213> Homo sapiens

<400> 420
Ser Gly Thr Asn Ala Leu Leu Val Val Lys His Arg Asp Met Asn Glu
1 5 10 15

Lys Glu Leu Glu Ala Gln Glu Ala Arg Lys Ala Gln Leu Glu Asn His
20 25 30

Glu Pro Glu Glu Glu Glu
35

<210> 421
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 421
Glu Glu Glu Met Glu Thr Glu Glu Lys Glu Ala Gly Gly Ser Asp Glu
1 5 10 15

Glu Gln Glu Lys Gly Ser Ser Ser Xaa Lys Glu Gly Ser Glu Asp Glu
20 25 30

His Ser Gly Ser Glu Ser
35

<210> 422
<211> 29
<212> PRT
<213> Homo sapiens

<400> 422
Glu Arg Glu Glu Gly Asp Arg Asp Glu Ala Ser Asp Lys Ser Gly Ser
1 5 10 15

Gly Glu Asp Glu Ser Ser Glu Asp Glu Ala Arg Ala Ala
20 25

<210> 423
<211> 26
<212> PRT
<213> Homo sapiens

<400> 423
Arg Asp Lys Glu Glu Ile Phe Gly Ser Asp Ala Asp Ser Glu Asp Asp
1 5 10 15

Ala Asp Ser Asp Asp Glu Asp Arg Gly Gln
20 25

<210> 424
<211> 10
<212> PRT
<213> Homo sapiens

<400> 424
Tyr Lys Met Phe Leu Ser Tyr Ser Leu Glu
1 5 10

<210> 425
<211> 67
<212> PRT
<213> Homo sapiens

<400> 425
Pro Arg Val Arg Phe Gly Ser Ala Pro Ala Pro Gln Pro Ser Cys Val
1 5 10 15

His Thr Ala Val Pro Leu Pro Leu Gly Gly Leu Asp Thr His Pro Ala
20 25 30

Arg Gly Ala Thr Lys Leu Cys Pro Asp Glu Ala Arg Trp Ala Pro Arg
35 40 45

Ser Leu Pro Leu Ser Arg Arg Val Leu Ala Ser Pro Gly Phe Ala Phe
50 55 60

Leu Arg Ile
65

<210> 426
<211> 34
<212> PRT
<213> Homo sapiens

<400> 426
Pro Arg Val Arg Phe Gly Ser Ala Pro Ala Pro Gln Pro Ser Cys Val
1 5 10 15

His Thr Ala Val Pro Leu Pro Leu Gly Gly Leu Asp Thr His Pro Ala
20 25 30

Arg Gly

<210> 427
<211> 33
<212> PRT
<213> Homo sapiens

<400> 427
Ala Thr Lys Leu Cys Pro Asp Glu Ala Arg Trp Ala Pro Arg Ser Leu
1 5 10 15

Pro Leu Ser Arg Arg Val Leu Ala Ser Pro Gly Phe Ala Phe Leu Arg
20 25 30

Ile

<210> 428
<211> 80
<212> PRT
<213> Homo sapiens

<400> 428
Ser Gln Val Gly Ser Ala Phe Thr Pro Thr Leu Pro Lys Gly Ala Gly
1 5 10 15

Leu Pro Arg Val Cys Leu Leu Thr Asp Leu Asp Glu Val Arg Gly Ser
20 25 30

Pro Ile Arg Ala Ala Leu Arg Ile Val Ile Phe Leu Phe Ala Cys Gly
35 40 45

Phe Asn Phe Cys Ile Phe Leu Ile Thr Ser Leu Ile Gln Asn Val Phe
50 55 60

Ile Val Leu Phe Gly Asp Ala His Ser Thr Phe Glu Phe Ser Phe Tyr
65 70 75 80

<210> 429
<211> 44
<212> PRT
<213> Homo sapiens

<400> 429
Ser Gln Val Gly Ser Ala Phe Thr Pro Thr Leu Pro Lys Gly Ala Gly
1 5 10 15

Leu Pro Arg Val Cys Leu Leu Thr Asp Leu Asp Glu Val Arg Gly Ser
20 25 30

Pro Ile Arg Ala Ala Leu Arg Ile Val Ile Phe Leu
35 40

<210> 430
<211> 36
<212> PRT
<213> Homo sapiens

<400> 430
Phe Ala Cys Gly Phe Asn Phe Cys Ile Phe Leu Ile Thr Ser Leu Ile
1 5 10 15

Gln Asn Val Phe Ile Val Leu Phe Gly Asp Ala His Ser Thr Phe Glu
20 25 30

Phe Ser Phe Tyr
35

<210> 431
<211> 80
<212> PRT
<213> Homo sapiens

<400> 431
His Glu Leu Val Arg Ile Arg His Glu Ser Thr Ser Gln Ile Pro Gly
1 5 10 15

Met Thr Gly Thr Cys His His Ser Leu Phe Ser Phe Leu Ile Phe Ser
20 25 30

Phe Phe Leu Ala Ile Gly Ser Pro Phe Val Ala Gln Val Gly Leu Glu
35 40 45

Leu Leu Gly Ser Asn Asp Pro Leu Ala Ser Ala Ser Gln Ser Val Arg
50 55 60

Ile Thr Gly Met Ser Tyr Cys Ala Trp Pro Lys Ser Tyr Ser Tyr His
65 70 75 80

<210> 432
<211> 80
<212> PRT
<213> Homo sapiens

<400> 432
Trp Asn Pro Pro Arg Ala Ala Arg Lys Ser Gly His Glu Ile Phe Ser
1 5 10 15

Arg Asp Met Val Ser Ser Cys Trp Pro Gly Trp Ser Pro Ser Leu Asp
20 25 30

Leu Val Ile Leu Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser Phe Glu
35 40 45

Leu Arg Ser Ser Arg Pro Pro Ser Gln His Asn Glu Ser Thr Leu Glu
50 55 60

Ala Arg Ser Gly Trp Ile Thr Arg Ser Gly Asp Arg Asp His Pro Gly
65 70 75 80

<210> 433
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (174)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (186)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 433
Asn Ser Ala Arg Ala Gln Phe Val Gln Ala Leu Ser Pro Met Leu Phe
1 5 10 15

Leu Pro Leu Pro Cys Leu Pro Phe Trp Ser Cys Arg Met Asn His Pro
20 25 30

Pro Glu Gly Ser Thr Val Val Phe Phe Xaa Leu Phe Phe Phe Phe Glu
35 40 45

Thr Val Leu Leu Cys Cys Pro Gly Trp Ser Ala Val Val Gln Ser Arg
50 55 60

Leu Ala Ala Thr Ser Ala Ser Trp Phe Lys Arg Phe Ser Phe Leu Ser
65 70 75 80

Leu Leu Ser Ser Trp Glu Tyr Gly Cys Ala Pro Pro Arg Leu Ala Asn
85 90 95

Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp
100 105 110

Ser Arg Met Pro Asp Leu Val Val His Pro Xaa Arg Pro Pro Lys Val
115 120 125

Leu Gly Leu Gln Val Cys Ala Ala Ala Pro Gly Gln Ala Phe Phe Ser
130 135 140

Leu Gly Leu Leu Trp Pro Pro Arg Leu Gly Thr Arg Gly Pro Pro Gly
145 150 155 160

Thr Gly Ile Pro Ser Cys Thr Leu Ile His Gly Ala Leu Xaa Glu Met
165 170 175

Gln Val Leu Gln Gly Thr Gly Phe His Xaa Phe Trp Gly Asp Gln Pro
180 185 190

Ser Ser Pro Arg Ile Pro
195

<210> 434
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 434
Leu Cys Leu Leu Lys Arg Pro Ser Pro Ile Leu Phe Asn Pro Gly Ser
1 5 10 15

Pro Ser Gly Gly Pro Thr Leu Gly Thr Thr Ser Pro Thr Asp Gly Pro
20 25 30

Leu Ala Ser Ala Ile Leu Leu Ala Ala Ile Ser Trp Ala Lys Met Leu
35 40 45

Leu Xaa Pro Asp Val Ala Asp Xaa Pro Cys Gly Xaa Lys Arg Lys Pro
50 55 60

Xaa Leu Leu Met Leu Ile Ile Pro Leu Ser Ser Gln Pro Leu Tyr Ile
65 70 75 80

Lys Ala Ser Gly Thr Lys Arg
85

<210> 435
<211> 141
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 435
Gly Ala Ala Arg Val Pro Val Pro Arg Gly Ala Met Arg Tyr Asn Glu
1 5 10 15

Lys Glu Leu Gln Ala Leu Ser Arg Gln Pro Ala Glu Met Ala Ala Glu
20 25 30

Leu Gly Met Arg Gly Pro Lys Lys Gly Xaa Asp Glu Ala Glu Pro Val
35 40 45

Gly Ala Leu Leu Leu Glu Arg Cys Arg Val Val Arg Glu Glu Pro Gly
50 55 60

Thr Phe Ser Ile Ser Phe Ile Glu Asp Pro Glu Arg Lys Tyr His Phe
65 70 75 80

Glu Cys Ser Ser Glu Glu Gln Cys Gln Glu Trp Met Glu Ala Leu Arg
85 90 95

Arg Ala Ser Tyr Glu Phe Met Arg Arg Ser Leu Ile Phe Tyr Arg Asn
100 105 110

Glu Ile Arg Lys Val Thr Gly Lys Asp Pro Leu Glu Gln Phe Gly Ile
115 120 125

Ser Glu Glu Ala Arg Phe Gln Leu Ser Gly Leu Gln Ala
130 135 140

<210> 436
<211> 66
<212> PRT
<213> Homo sapiens

<400> 436
Arg Gly Glu Phe Leu Gln Lys Ser Ser Phe Phe Gly Pro Phe Tyr Phe
1 5 10 15

Ser Val Ser Gly Ser Leu Leu Val Met Lys Ala Leu Arg Leu Ser Ala
20 25 30

Ser Ala Leu Phe Cys Leu Leu Leu Ile Asn Gly Leu Gly Ala Ala Pro
35 40 45

Pro Gly Arg Pro Glu Ala Gln Leu Leu Leu Ser Ala Leu Ser Ile Lys
50 55 60

Ser Arg
65

<210> 437
<211> 77
<212> PRT
<213> Homo sapiens

<400> 437
Phe His Pro Arg Met Asp Thr Glu Lys Ser Trp Ile Pro Arg Val Trp
1 5 10 15

Leu Ala Leu Ser Cys Pro Leu Val Ile Ser Glu Trp Phe Leu Ile Leu
20 25 30

Cys Ile His Val Met Arg Gly Lys Phe Pro His Asp Leu Leu Cys Phe
35 40 45

Leu Ile Lys Leu Leu Cys Pro Thr Ile Ala Gly Ser Ala Tyr Gly Cys
50 55 60

Cys Asn Val Gly Ser Ala Val Ser Cys Ser Tyr His Phe
65 70 75

<210> 438
<211> 10
<212> PRT
<213> Homo sapiens

<400> 438
Arg Leu Gly Thr Trp Glu Val Leu Thr Arg
1 5 10

<210> 439
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 439
Gly Val Gly Arg Arg Pro Ser Gly Arg Ser Arg Gly Ser Val Pro Thr
1 5 10 15

Gly Gly Leu Ala Pro His Pro Pro Met Ser Ser Pro Gly Ala Ser Val
20 25 30

Cys Pro Ser Val Lys Trp Ala Glu Gly Gln His His Leu Met Glu Leu
35 40 45

Ser Ser Gly Leu Gln Ala Val Asn Leu Lys Ala Trp His Met Gly Gly
50 55 60

Pro His Glu Asp Xaa Ile Leu Arg Cys Val Val Glu Phe Ser Gln Gln
65 70 75 80

Arg Glu Ala Cys Arg Xaa Ala Ala Glu Pro Gly Val Leu Glu Glu Gln
85 90 95

Thr Cys Gly Arg Gly Ala Gly Gly Thr Gly Cys Glu Val Arg
100 105 110

<210> 440
<211> 25
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 440
Thr Ala Gly Glu Cys Arg Lys Lys Ala Arg Asn Thr Asp Xaa His Gly
1 5 10 15

Gly Arg Arg Arg Ser Thr Gln Met Gly
20 25

<210> 441
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 441
Glu Val Leu Val Thr Arg Glu Gly Gly Trp Arg Cys Pro Gly Leu Trp
1 5 10 15

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Pro Phe Gly Gly Trp Ala Gly Lys Thr Asp Gly Glu Arg Arg Glu Gly
            20                  25                  30

Gly Arg Arg Thr Gln Trp Leu Gly Cys Glu Pro Leu Val Glu Gly Trp
        35                  40                  45

Gly Gly Ala Asp Leu Arg Thr Gly Trp Gly Leu Gly Ile Leu Val Leu
    50                  55                  60

Asp Val Ala Gly Gly Gly Cys Ser Trp Leu Pro Gly Met Asn Gln Ser
65                  70                  75                  80

Val Val Trp Pro Ser Ser Ser His Pro Leu Met Tyr Cys Ser Leu Val
                85                  90                  95

Leu Gln Pro Asp Pro Cys Pro Gly Phe Ser Gly Ile Pro Ala Gln Leu
            100                 105                 110

Phe Thr Gly Trp Ala Gly Ala Val Leu Ser Thr Gly Leu Gly Pro Pro
        115                 120                 125

Xaa Gly Leu Leu Glu Gln Thr Xaa
    130                 135
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<210> 442
<211> 78
<212> PRT
<213> Homo sapiens

<400> 442

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Ala Pro Ser Met Asn Trp Arg Leu Cys Ser Pro Trp Glu Met Gly Ala
  1               5                  10                  15

Gln Gly Gly Pro Pro Glu Glu Pro Leu Phe Tyr Val Ala Leu Val Val
            20                  25                  30

Phe His Gly Trp Cys Ser Gly Ser Pro Tyr Gln Glu Glu Ala Pro Pro
        35                  40                  45

Cys Glu Gly Gly Gly Pro Glu Gly Gly Pro Arg Lys Pro Asp Gln Glu
    50                  55                  60

Pro Gly Asn Gln Val Gln Asp Leu Pro Gly His Ala Arg Val
65                  70                  75
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<210> 443
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 443
Glu Ile Ser Xaa Ala Xaa His Xaa Phe Phe Cys Xaa Xaa Leu Lys Leu
1 5 10 15

Phe Ser Ser Pro Gln Glu Gln His Xaa Gln Trp Val Trp Lys Trp Ala
20 25 30

Gly His Glu Ala Met Val Leu His Cys Ile Ala Trp Leu Gln Xaa Gly
35 40 45

Ile Ser Phe Leu Phe Leu Phe Leu Cys Val Ile Ala Ile Gly Ala Thr
50 55 60

Asn Phe Ala Ser Pro Xaa Phe Tyr Lys Leu Val Ser Ser Gly Val Ala
65 70 75 80

<210> 444
<211> 77
<212> PRT
<213> Homo sapiens

<400> 444
Gln Gln Pro Gln Gln Lys Met Gln Met Gly Lys Trp Val Ser Arg Leu
1 5 10 15

Leu Arg Leu Trp Asn Met Gly Ile Gln Leu Ala Leu Ala Pro Ala Leu
20 25 30

Ser Trp Gly Cys Ser Ser Ala Ser Cys Pro Val Cys Cys Gly Lys Thr
35 40 45

Glu Pro Leu Val Arg Leu Ala Arg Arg Arg Arg Ser Arg Arg Gln Ala
50 55 60

Ala Gln Ile Trp Glu Leu Ser Ala Ile Val Pro Ser Val

65 70 75

<210> 445
<211> 84
<212> PRT
<213> Homo sapiens

<400> 445
Met Ala Leu Ser Ser Gln Ile Trp Ala Ala Cys Leu Leu Leu Leu Leu
1 5 10 15

Leu Leu Ala Ser Leu Thr Ser Gly Ser Val Phe Pro Gln Gln Thr Gly
20 25 30

Gln Leu Ala Glu Leu Gln Pro Gln Asp Arg Ala Gly Ala Arg Ala Ser
35 40 45

Trp Met Pro Met Phe Gln Arg Arg Arg Arg Arg Asp Thr His Phe Pro
50 55 60

Ile Cys Ile Phe Cys Cys Gly Cys Cys His Arg Ser Lys Cys Gly Met
65 70 75 80

Cys Cys Lys Thr

<210> 446
<211> 222
<212> PRT
<213> Homo sapiens

<400> 446
Ser Ser Phe His Phe Leu Trp Ala Gly Leu Ser Gly Leu Leu Trp Pro
1 5 10 15

Ala Met Pro Gly His Val Pro Leu Cys Pro Leu Val Leu Gln Val Pro
20 25 30

Ser Pro Ala Ser Gly Ala Arg Gln Leu Ala Thr Trp Glu Gly Arg Ser
35 40 45

Gln Glu Phe His Thr Leu Val Leu Arg Pro Glu Pro Ala Leu Arg Leu
50 55 60

Pro Ala Pro Gln Asp Thr Ala Gly Cys Trp Thr Pro Ser Ser Leu Val
65 70 75 80

Cys Val Cys Val Ala Glu Lys Asp Lys Thr Val Gln Ser Ala Ala Tyr
85 90 95

Ser Gln Ser Gly Val Trp Ser Val Cys Leu Leu Leu Cys Gly Ser Ser
100 105 110

Arg Thr Thr Ser Phe Leu Val Leu Phe Gly Phe Trp His Leu Val Phe
115 120 125

Leu Thr Thr Asn Asn Gly Glu Lys Glu Leu Ile Leu Ser Asp Thr Glu
130 135 140

Asp Cys Leu Thr Leu Val Ser Val Arg Ser His Lys Arg Glu Thr Glu
145 150 155 160

Phe Cys Gly Ser Ala His Arg Thr Asp Pro Gln Pro Arg Gln Arg Val
165 170 175

Cys Gly Asp Gly Ala Leu Ser Cys Gln Gly Ala Pro Gly Ala Glu Pro
180 185 190

Gly Pro Gly Glu Leu Ala Trp Ser Pro Gln Asp Ser Ala Ala Trp Thr
195 200 205

Val Thr Leu Ala Leu Phe Leu Leu Gln Ala Arg Asn His Ile
210 215 220

<210> 447
<211> 16
<212> PRT
<213> Homo sapiens

<400> 447
His Ile Ile Val Asn Tyr Gly His Pro Thr Val Leu Ser Asn Thr Arg
1 5 10 15

<210> 448
<211> 422
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (355)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 448
Pro Pro Arg Pro Thr Leu Asp Pro Ile Gln Arg Gly Gly Ser Asp Pro
1 5 10 15

His Leu Pro Thr Gly Arg Gly Pro Arg Ser Asp Leu Cys Pro Asp Ile
20 25 30

Ala Gly Leu Cys Lys Thr Gly Pro Gly Glu Xaa Arg Arg Glu Glu Asn
35 40 45

Gln Ser Gly Gly Pro Glu Glu Ser Pro Ala Met Leu Pro Thr Phe Leu
50 55 60

Leu Met Asn Leu Leu Ser Leu Ala Gly Asp Val Ala Leu Gln Gln Leu
65 70 75 80

Val His Leu Glu Gln Ala Val Ser Gly Glu Leu Cys Arg Arg Arg Val
85 90 95

Leu Arg Glu Glu Gln Glu His Lys Thr Lys Asp Pro Lys Glu Lys Asn
100 105 110

Thr Ser Ser Glu Thr Thr Met Glu Glu Glu Leu Gly Leu Val Gly Ala
115 120 125

Thr Ala Asp Asp Thr Glu Ala Glu Leu Ile Arg Gly Ile Cys Glu Met
130 135 140

Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala Ala Phe Val Pro Leu Leu
145 150 155 160

Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr Ser Asn Pro Asp Leu Ser
165 170 175

Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe Cys Met Ile Ser Ala Thr
180 185 190

Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe Thr Met Leu Glu Lys Ser
195 200 205

Pro Leu Pro Ile Val Arg Ser Asn Leu Met Val Ala Thr Gly Asp Leu
210 215 220

Ala Ile Arg Phe Pro Asn Leu Val Asp Pro Trp Thr Pro His Leu Tyr
225 230 235 240

Ala Arg Leu Arg Asp Pro Ala Gln Gln Val Arg Lys Thr Ala Gly Leu
245 250 255

Val Met Thr His Leu Ile Leu Lys Asp Met Val Lys Val Lys Gly Gln
260 265 270

Val Ser Glu Met Ala Val Leu Leu Ile Asp Pro Glu Pro Gln Ile Ala
275 280 285

Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu Ser His Lys Gly Asn Ala
290 295 300

Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser Arg Leu Ser Asp Pro Glu
305 310 315 320

Leu Gly Val Glu Glu Glu Pro Phe His Thr Ile Met Lys Gln Leu Leu
325 330 335

Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu Ser Leu Val Glu Lys Leu
340 345 350

Cys Gln Xaa Phe Arg Thr Ser Arg Thr Glu Arg His Ser Glu Thr Trp
355 360 365

Pro Thr Val Cys His Ser Cys Pro Ser Gln Ser Glu Ala Ser Val Arg
370 375 380

Cys Leu Thr Ile Leu Thr Val Leu Glu Thr Asn Cys Gln Met Ser Pro
385 390 395 400

Ser Ser Val Leu Phe Cys Gln Leu Trp Ala Ser Cys Asp Val Gly Pro
405 410 415

Ser Leu Arg Ala Arg Leu
420

<210> 449
<211> 68
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 449
His Glu Leu Phe Pro Pro Arg Trp Trp Pro Asp Lys Phe Ile Ser Lys
1 5 10 15

Val Gly Phe Thr Ile Ala Asn Ala Arg Asp Leu Xaa His Thr Phe Pro
20 25 30

Thr Met Lys Leu Glu Asn Tyr Leu Phe Glu Ser Leu Ser Leu Ile Ile
35 40 45

Val Val Trp Ser Leu Ser Asn Ser Ser Glu Val Cys Arg Lys Val Lys
50 55 60

Gln Ile Val Gly
65

<210> 450
<211> 166
<212> PRT
<213> Homo sapiens

<400> 450
Ser Lys Met Ser Arg Leu Glu Ala Lys Lys Pro Ser Leu Cys Lys Ser
1 5 10 15

Glu Pro Leu Thr Thr Glu Arg Val Arg Thr Thr Leu Ser Val Leu Lys
20 25 30

Arg Ile Val Thr Ser Cys Tyr Gly Pro Ser Gly Arg Leu Lys Gln Leu
35 40 45

His Asn Gly Phe Gly Gly Tyr Val Cys Thr Thr Ser Gln Ser Ser Ala
50 55 60

Leu Leu Ser His Leu Leu Val Thr His Pro Ile Leu Lys Ile Leu Thr
65 70 75 80

Ala Ser Ile Gln Asn His Val Ser Ser Phe Ser Asp Cys Gly Leu Phe
85 90 95

Thr Ala Ile Leu Cys Cys Asn Leu Ile Glu Asn Val Gln Arg Leu Gly
100 105 110

Leu Thr Pro Thr Thr Val Ile Arg Leu Asn Lys His Leu Leu Ser Leu
115 120 125

Cys Ile Ser Tyr Leu Lys Ser Glu Thr Cys Gly Cys Arg Ile Pro Val
130 135 140

Asp Phe Ser Ser Thr Gln Ile Leu Leu Cys Leu Val Arg Ser Ile Leu
145 150 155 160

Thr Ser Lys Pro Ala Cys
165

<210> 451
<211> 21
<212> PRT
<213> Homo sapiens

<400> 451
Lys Pro Ser Leu Cys Lys Ser Glu Pro Leu Thr Thr Glu Arg Val Arg
1 5 10 15

Thr Thr Leu Ser Val
20

<210> 452
<211> 20
<212> PRT
<213> Homo sapiens

<400> 452
Val Leu Lys Arg Ile Val Thr Ser Cys Tyr Gly Pro Ser Gly Arg Leu
1 5 10 15

Lys Gln Leu His
20

<210> 453
<211> 21
<212> PRT
<213> Homo sapiens

<400> 453
His Asn Gly Phe Gly Gly Tyr Val Cys Thr Thr Ser Gln Ser Ser Ala
1 5 10 15

Leu Leu Ser His Leu
20

<210> 454
<211> 21
<212> PRT
<213> Homo sapiens

<400> 454
Leu Leu Val Thr His Pro Ile Leu Lys Ile Leu Thr Ala Ser Ile Gln
1 5 10 15

Asn His Val Ser Ser
20

<210> 455
<211> 20
<212> PRT
<213> Homo sapiens

<400> 455
Ser Phe Ser Asp Cys Gly Leu Phe Thr Ala Ile Leu Cys Cys Asn Leu
1 5 10 15

Ile Glu Asn Val
20

<210> 456
<211> 21
<212> PRT
<213> Homo sapiens

<400> 456
Val Gln Arg Leu Gly Leu Thr Pro Thr Thr Val Ile Arg Leu Asn Lys
1 5 10 15

His Leu Leu Ser Leu
20